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FAM. NO.

PLANTS of PANAMA
Collection of Ellsworth P. Killip

NO. 3183

Name Meibomia supina (Sw.) Britton

Hab.

Date 10 Oct 17

Loc. Taboga Is.

Alt. —

Fam.

Det. by Standley

PLANTS OF PANAMA
Collected by Ellsworth P. Killip

Name Diplazium

Hab. Dense forest near Big Falls.

Valley of the Rio Piarnasta, about 5 miles east of El Boquete, Province of Chiriqui, 1525 to 1600 meters

February 9-22, 1918.

No 5394

Identifications by

1-630 Jamaica { Ferns - Maxon
Grasses - Hitchcock
Flowers - Britton unless otherwise noted
L = E. C. Leonard

1-600 New Jersey Killip.

700-1599 ------ "

1600-1699 }
1800-1850 } Hitchcock & Chase

2000-2499 - Killip

2500-2999 - Maxon

3000-3700 - Killip unless otherwise noted

A = Oakes Ames
Bl = S. F. Blake
S = Paul C. Standley
P = F. W. Pennell
Br = N. L. Britton
Kn = R. Knuth
R = J. N. Rose
T = Wm. Trelease

4000-4699 - Hitchcock & Chase

5000-5500 - Maxon

6000-6225 - Killip

Key to Habitat Signs.

α Along roadsides

β Dry fields

γ Deep woods

δ Along R.R. tracks

ε Dry savannas or prairies

ζ About city lots

θ Brushy banks along roadside

ι Pine barrens ~~woods~~ (hard white sand)

κ Cat-tail swamp

λ Dry grassy hillsides

μ Wooded "

o Wet meadows ø at edge of pond

π Rocky banks of stream

ρ Marl bog

σ Cedar or arbor vitae swamp

ɸ Open sphagnum swamp

ψ Beach

ω Limestone cliffs

< Sandy marsh at edge of pond

ǂ On rocks in river course

\# In waters of slow-flowing rivers

⊙ " deep " " lake or bay

⊡ " shallow " " "

Ɛ Salt Marsh

v Wet, marshy woods

* Crevices of rocks

d Cultivated fields

m Mangrove swamp

S: Compact sandy soil near sea

— Exposed situations along trail

♡ " rocky hillsides or fields

Ⓨ On trees, open woods

✗ Exposed rocky mt.-top

T Sandy fields

Δ Open ~~sandy~~ oak woods

Ⓛ Sandy bogs in pine barrens

H Wet soil, banks of stream

Ω Low, marshy ground near ponds (or ocean)

⌒ Gravelly or stony borders of lakes, or stream bottoms

Z Tidal flats

P Pasture lands

<u>In tropics</u>

γ = Dense forest

Δ = Open woods

H = Banks of small streams in dense forest

\ Along rivers in dense forest

⊗ On trees, dense wet forest

~ Wet ravines in dense forest

B On boulders in ~~open~~ woods

Σ Wet, humid forest

↑ Waste places

□ Volcanic rocks on coast

Ω Coconut grove

G Pineapple "

Cl Clearings in forests

m̲ Muddy open trail, near sea-level

6 mounted
J. E. Benedict

No.	Species		K B P (5)	H (10)	LW (15)
1	Crotalaria incana L.	α	/		
2	Plumbago scandens L.	α	/	/	/ /
3	Passiflora perfoliata	α	/		/ /
4	Guiacum officinale L.	β			/ /
5	Croton adenophyllus Spreng.	α	/		/ /
6	Alternanthera halimifolia Lam.	α		/	/ /
7		α	/	/	
8	Ipomoea grisebachii	α			
9		α		/	
10	Malvastrum spicatum (L.)	α	/		
11	Melochia tomentosa L.	α	/	/	/ /
12	Malvastrum spicatum (L.) Gray	α	/	/	/ /
13	Synedrella nodiflora (L.) Gaertn.	α			/ /
14		α	/		/
15	Antigonum leptopus Hook. Arn.	α			
16	Morinda royoc L.	α			
17	Tecoma stans	α	/		/ /
18		α			
19		α			
20	Lippia reptans	α			
21		ξ			
22	Heliotropium parviflorum	ξ	/	/	
23	Thespesia populnea Soland	α	/		
24	Crotalaria retusa L.	α	/		/
25	Andrographis paniculata Nees	α	/		/ /
26	Lantana reticulata Pers.	μ	/		/ /
E.C.L. 27	Hyptis suaveolens (L.) Poit	μ	/		
28	"	μ			
29	Notoptera hirsuta (Sw.) Urb.	μ			
30	Bauhinia divaricata L.	μ			

1-8. Rockfort 2/15/16
9-15. South Camp Rd., near Kingston "
16-24. Rockfort "
25-30. Long Mt. 2/17/16

Retyped Berlin

Fide	Species		5	10	15	16	No.
		μ					31
	Rivina humilis L.	μ					32
	Vernonia cinerea	ξ	/				33
	Croton linearis Jacq.	μ	/		/	/	34
! HB	Tillandsia recurvata L.	μ	/				35
	Acalypha scabrosa Sw.	μ		/	/	/	36
	Polypodium polypodioides	(n)	/ / (1)	/ /			(37)
							38
	Cheilanthes microphylla Sw.		(1)/	/			39
	Sida glabra Mill.	μ	/				40
	Commelina nudiflora L.	μ				/	41
	Croton humilis L.	μ					42
E.C.L.	Wissadula periplocifolia (L.) Presl	μ	ECL.			/	43
	Abutilon crispum G. Don	μ			/	/	44
	Tradescantia multiflora Sw.	μ					45
	Centrosema virginica	μ	/				46
	Priva echinata Juss.	μ					47
E.C.L.	Melochia nodiflora Sw.	μ					48
	Petiveria alliacea L.	α	/	/	/		49
	Argemone mexicana	α	/				50
		α	/				51
	Momordica balsamina (- charantia abbreviata Ser.)	δ	/				52
	Eupatorium odoratum L.	α		/		/	53
E.C.L.	Caesalpinia coriaria (Jacq.) Willd.	α					54
E.C.L.	Cassia emarginata L.	α		/			55
	Parthenium hysterophorus L.	α	/	/	/	/	56
	Rivina humilis L.	α	/		/	/	57
	Lippia reptans HBK	α			/	/	58
	Sida carpinifolia L.f.	α	ECL	/			59
	Ipomoea grisebachii	α					60

31-48. Long Mt. 2/17/16
49-60. Bet. Kingston and Spanish Town 2/18/16

No.	Name	
		δ
62	Boerhaavia erecta L.	δ
63	Meibomia scorpiurus (Sw.) Kuntze	δ
64	Chamaesyce hypericifolia (L.) Millsp.	δ
65	Waltheria americana L.	δ
66	Chamaesyce hirta (L.) Millsp.	δ
67	Boerhaavia hirsuta Willd.?	δ
68	Stylosanthes hamata (L.) Taub.	δ
69	Sida angustifolia	δ
E.C.L. 70	Croton hirtus L'Her.	δ
71	" "	δ
72	Commicarpus scandens (L.) Standl.	α
73	Crotalaria verrucosa L.	δ
74	Clitoria ternatea L.	δ
75	Calotropsis procera	α
76	Acnan virgata (L.) Medic.	δ
77	Indigofera suffruticosa Mill.	δ
E.C.L. 78	Clitoria ternata L.	δ
79	Bidens leucanthus L.	δ
80	Ipomoea aegyptia	δ
81	Vachelia farnesiana (L.) W. & A.	s
82	Cyperus laevigatus L.	s
83	Rivina humilis L.	δ
84	Sida procumbens [illegible]	δ
85	Valota insularis	δ
86		s
87	Batis maritima L.	s
88	Sesuvium portulacastrum L.	s
89	Rhizophora mangle L.	m
90	Phaseolus semierectus L.	δ

61–71. West of Kingston 2/18/16
" 72. Between Kingston & Spanish Town "
73–74. West of Kingston near Hunts Bay "
75. Rockfort 2/15/16
76–90. West of Kingston near Hunts Bay 2/18/16

Name		No.
Bambusa		98a
Sida erecta Macf.	δ	91
Panicum maximum Jacq.	δ	92
Cenchrus echinatus	δ	93
Anthephora hermaphrodita	δ	94
Cissampelos tomentosa DC.	λ	95
Sourea vespertilionis (L. f.) Desv.	λ	96
Euphorbia ~~brasiliensis~~ lasiocarpa pulchella (Kth.) Boiss.	α	97
Dryopteris =200	α	98
	λ	99
Lantana stricta Sw.	λ	100
Tribulus maximus L.	λ	101
Ixora thwaitesii Hook. f.	ξ	102
Gymnopteris rufa (L.) Bernh.	λ	103
	λ	104
Polypodium plumula HBK	λ	(105)
	λ	106
Adiantum cristatum L.	α	107
Notholaena trichomanoides subandina	λ	(108)
	α	109
Trismeria trifoliata (L.) Diels	α	110
Hyptis suaveolens L.	α	111
Emilia sonchifolia L.	α	112
Passiflora suberosa L.	α	113
	α	114
Meibomia supina (L.) Ktze.	α	115
Browallia americana L.	α	116
Sida carpinifolia L. f.	α	117
Lantana camara L.	α	118
Valerianodes cayennensis Ktze.	α	119
Iresine paniculata (L.) Kuntze	α	120

91–94. West of Kingston near Hunts Bay 2/18/16
95–106. Papine 2/20/16
107–110. Gordon Town 2/20/16
111–120. Bet. Papine & Gordon Town "

146a. Luffa cylindrica (fruit only)

No.	Name		Marks
121		α	/ / /
122	Leonurus sibiricus L.	α	/ /
123	Thunbergia fragrans laevis	α	
124	Solanum nigrum L.	α	/
125	Salvia occidentalis Sw.	α	/
126	Eupatorium microstemum Cass.	α	
127	Eleocharis ochreata	α	/
128	Leontodon nepetaefolia R.Br.	α	/ / /
129	Hyptis pectinata (L.) Poit.	α	
130	Rivina humilis L.	α	
131	Eupatorium odoratum L.	λ	
132	Crotalaria saltiana Andr.	λ	/ /
(133)	Adiantum cristatum ~~Synedrella nodiflora (L.) Gaertn.~~	λ	/ / (1) / / / / /
134	Cheilanthes microphylla Sw.	λ	/ /
(135)	Hemionitis palmata L.	λ	
136	Indigofera subulata	α	
137	Dolicholus minimus (L.) Medic.	α	/
138	Meibomia supina (Sw.) Britt.	α	
139	Bidens reptans	α	
140	Pityrogramma calomelaena (L.) Link	α	/ / / /
141	Pteris longifolia L.	α	
142	Ageratum houstonianum Mill.	α	/ / /
143	Asclepias curassavica L.	α	/ /
144	Ricinus communis L.	α	/ /
145	Solanum torvum L.	α	/ / /
146		β	
147	Catalpa longissima (Jacq.) Sims	ζ	
148	Cleome spinosa	ζ	/ /
149	Leucaena glauca (L.) Benth.	ζ	/ / /
150		ζ	

121-126 Papine, 2/20/16
127 Gordon Town "
128-145 Papine, 2/21/16
146. Between Kingston & Spanish Town 2/18/20
147-150. Kingston 2/22/16

Name		Marks	No.
Chloris paraguayensis	ζ	/ / /	151
Bryophyllum pinnatum (Lam.) Kurz	ζ		152
Lisianthus longifolius L.	ζ	/	153
Tradescantia multiflora	ζ		154
Moraea iridoides L.	—	/ /	155
Hibiscus trionum L.	λ		156
Urena lobata L.	λ	/	157
Silene armeria L.	—	/	158
Ipomoea fastigiata (Roxb.) Sweet	—		159
Ulex europaeus L.	λ		160
Lapsana communis L.	—	/ / /	161
Erythraea ramosissima Pers.	—		162
Cracca grandiflora (Vahl) Kuntze		/ / /	163
Tradescantia multiflora	—	/ /	164
Begonia	γ		165
Bidens pilosa L.	γ		166
Jaegeria pinnata (L.) Kuntze	esc. —	/ / / /	167
			168
Pteridium arachnoideum (Kaulf.) Maxon (1ERK)			169
			170
Dryopteris asplenioides		/ /	171
			172
			173
			174
			175
		/	176
			177
Odontosoria jenmani Maxon	η	/ (1) / /	(178)
			179
			180

151. Kingston 2/22/16
152-154. Near Guava Ridge, 2/23/16
155-166. Between Cinchona & Lattimer River, 5000 ft. 2/24/16
168-180 " " " " " " "
167. Cinchona, 5000 ft. 2/24/16

202a Lycopodium clavatum L.
209a Polypodium curvatum
181
182 Blechnum occidentale L.
183 Polypodium loriceum L.
184 Polypodium loriceum L.
185
186 Dryopteris heteroclita
187 Asplenium resiliens Kunze
188
189 Maurandia ~~scandens~~ erubescens A. Gray
190 Rynchospora polyphylla Vahl
191 Eupatorium heteroclinium Griseb.
192 Rosa laevigata Michx.
193 Viburnum alpinum Macf.
194 Borreria verticillata (L.) Meyer
195 Micromeria viminea L.
196 Blechnum occidentale L.
197 Pityrogramma tartarea (Cav.) Maxon
198 Nephrolepis cordifolia (L.) Presl.
199 Polypodium pectinatum L.
200 Dryopteris oligophylla Maxon
201 Blechnum occidentale L. — 1 US dup.
202 Lycopodium jussiaei Desv.
203 Polystichum struthionis Maxon
204 Polypodium pectinatum L.
205 Dryopteris sagittata
206 Elaphoglossum lectum
207 Polypodium crassifolium L.
208 Cyperus aristatus CBCl.
209 Polypodium lanceolatum L.
210 Dicranopteris pectinata (Willd.) Und.

181-201. Between Cinchona & Lattimer River, 5000 feet, 2/24/16
202-210. " " " Morces Gap " " "

213a. Lycopodium fawcettii Und. & Lloyd (K)
238-240. New Haven Gap, 5600 feet, 2/25/16

237a
213b
226a
213c
232a Elaphoglossum villosum (Sw.) J. Sm.
Polystichum polystichiforme (Fée) Maxon 211
Lycopodium clavatum L. 212
213
Dryopteris heteroclita (Desv.) C. Chr. 214
215
Asplenium cirrhatum var. 216
Asplenium abscissum Willd. 217
Diplazium semihastatum (Kunze) Chr. 218
219
Stelis micrantha Sw. 220
Vaccinium meridionale Sw. 221
Ilex obcordata Sw. 222
223
224
Polystichum denticulatum (Sw.) J. Smith 225
Polypodium suspensum L. 226
" cultratum Willd. 227
Trichomanes crispum L. 228
Marattia alata 229
Lomaria polypodioides (Sw.) Desv. 230
Polypodium marginellum Sw. 231
Elaphoglossum hirtum (Sw.) Chr. 232
233
Polypodium trichomanoides 234
Dicranopteris jamaicensis Underw. 235
Polypodium delitescens Maxon 236
Hymenophyllum fucoides Sw. 237
238
Diplazium centripetale Bak. 239
Botrychium dichotomum Underw. 240

211-219. Do. | 238-240 New Haven Gap 5600 ft. | 221-222, 231-234 } Summit, Sir John Peak, 6100 ft.
220- Monkey Hill, n.w. slope of Sir Johns Peak, 5-7-5800 ft. 2/25/16
223-230 " " " " " " " " " "
235-237 " " " " " " " " " "

258. Fragaria vesca L.

241 Elaphoglossum latifolium Sw.
242 Pteridium aquilinum (L.) Kuhn
243 Dryopteris heteroclita
244 Lomaria lineata (Sw.) Willd.
245 Hymenophyllum sericeum Sw.
246 Lepanthes divaricata Fawc. & Rendle
247 Pteris
248 Asplenium fragrans Sw.
249 Alsophila quadripinnata (Gmel.) C. Chr.
250 Pteris longifolia L.
251 Dicranopteris bancroftii (Hook.) Und.
252
253 Polypodium lanceolatum L.
254 Cyathea furfuracea Baker
255 Dryopteris heteroclita (Desv.) Chr.
256 Paesia viscosa St. Hil.
257 Lycopodium reflexum Lam.
258 a Polypodium lanceolatum L.
259 ~~Fragaria vesca L.~~ Stachys arvensis L.
260 Eupatorium harrisii Urban
261 Dryopteris oligocarpa (Willd.) Kuntze
262 ~~Trifolium~~ Medicago lupulina L.
263 Phaius tancarvilleae Blume
264 Viola pratasia
265 Hypochaeris arabiata L.
266 Clethra compressa Buch
267 Pittosporum undulatum Vent.
268 Dracaulon chinense (L.) Small
269 Vaccinium meridionale Sw.
270 ~~Dodonaea~~ jamaicensis Griseb.

241-245. New Haven Gap, 5600 feet 2/25/16
247-251. " " " " "
246. Monkey Hill, 5700 " "

252-257. Bet. Cinchona & New Haven Gap 2/25/16 5000-5500 ft.
258-270. Cinchona, 5000 ft 2/26/16.

277a Diplazium costale

Casuarina cunninghamiana Miq. 271
Pinus marimersia 272
273
Senites zengites 274
Epidendrum verrucosum 275
Iresine paniculata (L.) Kuntze 276
Pteris 277
278
Dryopteris wilsoni 279
Asplenium alatum H. & B. 280
" cirrhatum 281
Dennstaedtia cicutaria (Sw.) Moore 282
Trichomanes radicans Sw. 283
Hymenophyllum 284
285
Musa sapientum L. 286
Cyathea pubescens Mett. 287
Prescottia stachyoides (Sw.) Lindl. 288
Liparis harrisii Fawc. & Rendle (det. Ames) 289
Peperomia reflexa (L.) A. Dietr. 290
Ponthieva glandulosa (Sims) R.Br. 291
Cranichis diphylla Sw. (det. Ames) 292
293
Ageratum houstonianum Mill. 294
Pilea nigrescens Urban 295
Hymenophyllum polyanthos Sw. 296
Ranunculus cubensis Griseb. 297
Cyathea furfuracea Baker 298
299
Asplenium praemorsum Sw. 300

271-273. do.
274-275. S.P. Helen's Gap, 2/24/16
276-300 Moice's Gap, 5000 ft. 2/27/16

316a. Polypodium myosuroides
301 Lapsana communis L.
302 Rhynchosia plantaginea (L.) Lindl.
303 Trichomanes rigidum Sw.
304 Hymenophyllum polyanthos Sw.
305 Asplenium rautieri
306 Dryopteris reptans (Gmel.) C. Chr.
307 Verbena bonariensis L.
308 Relbunium hypocarpium (L.) Hemsl.
309 Thea sinensis
310 Cinchona micrantha Wedd.
311 Cystopteris fragilis (L.)
312 Hymenophyllum asplenioides Sw.
313 " polyanthos Sw.
314 " "
315 Polypodium cretatum Maxon
316 " trichomanoides Maxon?
317 ~~Hymenophyllum~~
318 Hymenophyllum
319 Polypodium marginellum Sw.
320 Hymenophyllum asplenioides Sw.
321
322 Octadesmia montana (Sw.) Benth.
E.C.L. 323 Gilbertia cuneifolia (Wright) Seem.
E.C.L. 324 Lobelia martagon Griseb.
325 Miconia rigida Sw.
326 Bambusa
327 Lycopodium taxifolium Sw.
328 Danthonia shrevei
329 Dryopteris heteroclita
330

301-306. Morces Gap, 5000 ft. 2/27/16
307-309. Near Cinchona, 5100 ft. 2/28/16
310. New Haven Gap, 5600 ft "
311. Cinchona 5000 ft "

312-328. Near Summit of Sir Johns Peak 5800-6100 ft 2/28/16
329-330. 2 mi. E. of Gordon Town, 1400 ft. 2/29/16

350-360. Between Gordon Town & Newcastle, 2400-3000 ft. 3/5/16

334a. Notholaena ferruginea Desv. (334a)
Adiantum concinnum 331
Arthraxon quartermianus Hitchc. 332
Chamaecrista glandulosa (L.) Greene 333
Cheilanthes microphylla Sw. 334
Pityrogramma sulphurea (Sw.) Maxon 335
Dryopteris effusa (Sw.) Urban 336
Coffaea arabica L. 337
Tribulus cistoides 338
339
Blechnum brownei Juss. 340
341
Calliandra portoricensis (Jacq.) Benth. 342
343
Valota insularis 344
Synedrella nodiflora (L.) Gaertn. 345
Philoxerus vermiculatus 346
Verbesina alba L. 347
E.C.L. Pluchea odorata Cass. 348
Monniera monniera (L.) Britton 349
Artemisia 350
Portulacca pilosa L. 351
Phoradendron cupressoides 352
Datura suaveolens H&B. 353
Zebrina pendula Schnitzl. 354
Lepidium 355
E.C.L. Bidens ~~leucantha (L.) Willd.~~ pilosa L. 356
~~Polypodium ... Pteris grandifolia~~ 357
Dryopteris serra (Sw.) Kuntze 358
Anemia hirsuta 359
360

331. Do.
332-337. Between Yallahs River & Content Gap 1700-3500 ft 2/29

338. Kingston 3/1/16
339.-345. Bet. Kingston & Spanish Town 3/3
346-349. Hunts Bay 3/3

361 Distreptus spicatus (Juss.) Cass.
362 Hypoxis decumbens L.
363 Chaptalia pumila
364 Salvia coccinea Juss.
365 Elephantopus mollis HBK. Bl
366 Oxalis martiana Zucc.
367 Pilea weddellii Panc. & Rendle
368 " virgata Wedd.
369 Rhipsalis cassytha (L.) Haw.
370 Polygala paniculata L.
371 ~~Solanum~~ Lycopersicum esculentum (L.)
372
373
374 Dolichos lablab L.
375 Meibomia supina (L.) Ktze.
376 Borreria laevis
377 Sauroglossum richardi Ames
378 Cosmos caudatus H.B.K.
379
380 Miconia laevigata (L.) DC
381 Indigofera subulata Vahl
382 Thunbergia alata
383
384 Centrosema virginica Benth.
385 Polypodium phyllitidis L.
386 Cyperus diffusus Kunth
387 Lycopodium reflexum
388
389
390

361-366 (~~374~~) Bet. Gordon Town & Newcastle
369-374 2400-3200 ft. 3/5/16
375-384. Vic. of Gordon Town 1400-2000 ft. 3/5/16

367-368. Sir Johns Peak 2/28/16
385-390. ~~Port Gordon~~ Near Newcastle, 3000 ft. 3/3

391
392 Andropogon saccharoides
393 Arundinella martinicensis
394 Eragrostis pilosa (L.) Beauv.
395 Adiantum tenerum Sw.
396 Cuscuta indecora Choisy
397
398 Haematoxylon campechianum L.
399 Syntherisma sanguinalis (L.) Dulac
400 Ipomoea polyanthes R. & S.
401 Anemia adiantifolia L.
402 Meibomia supina (L.) Ktze.
403
404 Mimosa pudica L.
405 Tectaria martinicensis (Spreng.) Copel.
406 Paspalum fimbriatum
407 Pachystachys coccinea (Aubl.) Nees
408 Tectaria heracleifolia (Willd.) Underw.
409 Dryopteris obliterata C.Chr.
410 Adiantum pulverulentum L.
411 " tenerum Sw.
412 Polystichum triangulum (L.) Fée
413 Adiantum cristatum L.
414
415 Rhytidophyllum tomentosum L.
416 Marcgravia brownei
417 Polystachya minuta (Aubl.) Britton
418
419
420 Palm

391-393. Near Newcastle, 3000 ft. 3/3
394 Kingston 3/3
395-404. Ewarton 3/6

405-420. Lower Eastern slopes of Mt. Diabolo 3/7

421 Dryopteris sagittata (Sw.) Chr.
422 ~~Epidendrum~~ Spiranthes elata (Sw.) L. C. Rich. (! Schweinf.)
423 Phaius tancervilli
424 Dennstaedtia cicutaria (Sw.) Moore
425 Polystichum christianae (Jenman) Maxon
426 Olfersia cervina (L.) Kze.
427 Oleandra articulata
428 Polypodium repens Aubl.
429 Asplenium abscissum
430 Dryopteris ~~[illegible]~~ oophylla Christ
431 " sagittata
432 Trichomanes radicans Sw.
433 Tectaria cicutaria (L.) Copel.
434 Danaea:
435 Dryopteris sagittata
436 Anopteris hexagona (L.) Chr.
437 Adiantum pulverulentum caudatum Jenman
438 Tectaria heracleifolia (Willd.) Underw.
439 Dryopteris sancta (L.) Kuntze
440 D. " asterothrix (Fée) Chr.
441 Anemia adiantifolia Sw.
442 Ichnanthus nemorosus
443 Campyloneurum pedatum (Desv.) Fée
444 Polystichum triangulum (L.) Fée
445 ~~Pteris~~ grandifolia
446 Pilea crassifolia (Willd.) Blume
447 Columnea hirsuta Sw.
448 Gesneria acaulis
449 Dryopteris normalis C. Chr.
450 Olfersia cervina (L.) Kunze

421–450 Eastern slopes of Mt. Diabolo 3/7/16

Neurolaena lobata (L.) R. Br. 451
~~Jenesium~~ inflatum Sw. 452
Pilea virgata Wedd. 453
Adiantum 454
Adiantum melanoleucum Willd. USDA P 455
Piper jamaicensis (Griseb.) C. DC. 456
Epidendrum cochleatum L. 457
Dryopteris effusa (Sw.) Urb. 458
Epidendrum fragrans Sw. 459
Polystichum triangulare (L.) Fée (EMC) 460
461
Crepis japonica (L.) Benth. 462
Iris florentina L. 463
464
~~Polystichum~~ Polypodium piloselloides L. 465
Selaginella arborea 466
Comparettia falcata P. & E. (det. Ames) 467
468
Dryopteris cordata (Fée) Urb. 469
470
471
Liabum umbellatum (L.) Sch. Bip. 472
473
Polystichum rhizophorum (Jenman) Maxon 474
Polypodium angustifolium Sw. 475
E.C.L. Impatiens balsamina L. 476
477
Adiantum fragile Sw. 478
Asplenium dentatum L. 479
" abscissum Willd. 480

451–453. Eastern slope of Mt. Diabolo 3/7
454, 457. Dawarton – Moneague Road 3/8
455–480 Hollymount 3/10

481 Asplenium auritum Sw.
482
483 Dryopteris serrulata (Sw.) Chr.
484 (circled) Tectaria coriandrifolia (Sw.) Underw.
485 (circled) Dryopteris reptans (Sw.) C. Chr.
486 Bletia florida (Salisb.) R. Br.
487
488 Gliricidia sepium (Jacq.) Steud.
489 Ipomoea cathartica Poir.
490 Malpighia glabra L.
491 Erechtites hieracifolia (L.) Raf.
492 Adiantum fragile Sw.
493
494 Teucrium inflatum Sw.
495 Sonchus oleraceus L.
496
497
498 Adiantum melanoleucum Willd.
499 Pleurya aestuans Gaud.
500 Wedelia trilobata (L.) Hitchc.
501 Dryopteris tetragona (Sw.) Urban
502 Adiantum tenerum Sw.
503 Dryopteris serra (Sw.) Ktze.
504 Coleus multiflora Benth.
505 Cakile lanceolata (Willd.) C.E. Schulz
506 Verbesina alba L.
507 Melanthera deltoidea Michx.
508 Eragrostis ciliaris
509 Vigna repens (L.) Kuntze
510 Adiantum melanoleucum Willd.

511 Isotoma longiflora Presl.
512 Liparis elata Lindl.
513
514 Peperomia amplexicaulis (Sw.) A. Dietr.
515 (circled 515) Polypodium lycopodioides L.
516
517 Citrus vulgaris Risso
518 Nephrolepis biserrata (Sw.) Schott
519 Habenaria monorrhiza Reichb. f. (det. Ames)
520
521 Chamaecrista lineata (Sw.) Greene
522 Adiantum fragile Sw.
523 " tenerum Sw.
524
525 Amaranthus dubius Mart.
526 Lobelia cliffortiana L.
527 Chamaesyce hypericifolia (L.) Millsp.
528 Pinus bolitaria
529 Pinus marimersia
530 Begonia acutifolia Jacq.
531 Stemodia maritima L.
532 Phaseolus semierectus L.
533 Rhabdadenia paludosa
534 Nepsera aquatica Naud.
535 Adiantum latifolium Lam.
536 (circled) Dryopteris guadalupensis (Wikstr.) Chr.
537 (circled) Adiantum deltoideum Sw.
538 Exthalis fruticosa L.
539 Sophora tomentosa
540 Coix lachryma-jobi L.

ex2 554a Abrus precatorius L. 1
541 Tridax procumbens L. β
542 Stigmaphyllon sagraeanum Juss. β3
543 Sauvagesia erecta L.
544 Pavonia typhalcea Cav.
545 γ
546 Adiantum brasiliense γ
547 Hibiscus schizopetalus (Mast.) Hook. country
548 Aster laevis L. (? E.C.L.) "
549 α
550 Indigofera subulata Vahl α
551 Moringa moringa (L.) Millsp. α
552 Brya ebenus DC. Δ
553 Meibomia supina (Sw.) Britton α
554 Phaseolus suberectus? Ω
555 Pachystachys coccinea (Aubl.) Nees γ
556 Gynerium sagittatum Ω
557 Dolicholus minimus (L.) Medic. Ω
558 Crotalaria saltiana Andr. α
L 559 Chamaesyce ~~[illegible]~~ brasiliensis (Lam.) Small δ
560 Cleome gynandra L. δ
561 Piaropus ~~azureus~~
562 Scoparia dulcis L.
563 Asclepias nivea L. α
L 564 ~~Meibomia~~ Ipomoea fastigiata (Roxb.) Sweet S
565 Adiantum trapeziforme
566 Meibomia supina (Sw.) Britton
567 Piptadenia
568 Tracaulon [illegible] (L.) Small
569
570

541-542 - San Juan, Cuba
543-544 - Santiago, "
545-546, 567-568 } Cinchona
547-548. Port Antonio
549-555. Hollymount
556-557. St Ann's Bay
558. Papine
559-562. West of Kingston
563 - Content Gap
564. West of Kingston

Lobelia cliffortiana L. 1 571
Adiantum melanoleucum Willd. 1 US for display 572
573
~~Adiantum melanoleucum Willd. 1 Bay~~ 574
Polypodium rhizophorum (Jenm.) Maxon 575
Adiantum melanoleucum Willd. 576
Cheilanthes microphylla 577
578
579
Scoparia dulcis L. 580
581
Rubus ellipticus Smith 582
Lippia reptans L. 583
Mangifera indica 584
Palm 585
586
587
Dicranopteris bifida (Willd.) Maxon 588
589
590
L Scutellaria ventenatii Hook. 591
Meibomia scorpiurus 592
Gossypium barbadense 593
Bambusa arundinacea L. 594
Ipomoea nil (L.) Roth 595a
Malaxis grisebachii Fawc. & Rendle 596
Ponthieva ventricosa (Griseb.) F. & R. 597
Meibomia supina (L.) Ktze. 598
Meibomia scorpiurus 599
Chaetochloa barbata 1 600
Eulophia alta (L.) F. & R. 595

571. ~~St Ann's Bay~~ Roaring R. Falls. 3/9

		St. Ann's Bay	3/9
635	Lepidium		
		635. Sisymbrium StAnns Bay	3/9
601			
602	Cenchrus echinatus		
603	Eragrostis ciliaris		
604	Dichromena ciliata		
605	Sporobolus indicus (L.) R.Br.		
606			
607	Uncinia jamaicensis	St. Ann's Bay	3/9
608	Cenchrus viridis		
609	Leptochloa virgata		
610	Syntherisma sanguinalis (L.) Dulac		
611	Cyperus confertus		
612	" odoratus L.		
613			
614	Odontosoria jenmani Maxon		
615			
616	Botrychium jenmani	Cinchona ♀	2/26
617	Polystichum plaschnickianum Cav.	Morces Gap	2/27
618	Lippia reptans L.	St. Anns Bay	3/9
619	Notholaena bonariensis (Willd.) C. Chr.	Content Gap	2/29
620	Polypodium loriceum L.		
621	Jacquemontia jamaicensis	St. Ann's Bay	
622	~~Eichhornia azurea~~ Piriqueta crassipes Raf.	Hunts Bay	3/3
623	Polystichum polystichiforme (Fée) Maxon		
624	Dryopteris		
625	Passiflora sexflora Juss.		
626	~~Rynchospora~~ Dichromena ciliata	Kingston ♀	3/12
627	~~Eupatorium~~ Pteris longifolia L.	St. Anns Bay	3/9
628	Dryopteris sagittata (Sw.) C. Chr.	?	
629	Asplenium auritum Sw.	Morce's Gap	2/27
630	Garrya macfadyenii Hook	Cinchona	2/29
631	Liparis saundersiana Rchb. f. (But Ann)		
632	Sida carpinifolia L. f	R.R. W. of Kingston	3/3
633	Salvia micrantha Vahl	Hollymount	3/10
634.	Selenicereus grandiflorus	Ewarton	3/7

1 Strophostyles helveola (L.) Brit. β
2 Artemisia ludoviciana Nutt. ψ
3 Atriplex arenaria Nutt. ψ
4 Artemisia stelleriana Bess. ψ
5 Euphorbia polygonifolia L. ψ
6 Physalis heterophylla Nees ψ
7 " subglabrata Mackenzie & Bush ψ
8 Baptisia tinctoria (L.) R.Br. T
9 Polygonum ciliatum T
10 Solidago sempervirens L. ψ
11 Arenaria peploides L. ψ
12 Chenopodium ambrosioides L. ψ
13 Sesuvium maritimum (Walt.) BSP. ψ
14 Strophostyles umbellata (Muhl.) Brit. ψ
15 " helveola (L.) Brit. ψ
16 ψ
17 Triplasis purpurea (Walt.) Chapm. ψ
18 Hypanthes ~~anagallidea (Michx.) Robins.~~ inaequalis (Walt.) [illegible]
19 Ludwigia palustris (L.) Ell. <
20 Salicornia mucronata Bigel. ε
21 " ambigua Michx. ε
22 " europaea L. ε
23 Salsola kali L. ψ
24 Suaeda maritima (L.) Dumort. ψ 1
25 Cassia hirsuta ψ
26 Desmodium marilandicum (L.) DC. β
27 Rotala robustior <
28 Lespedeza β
29 Rynchospora β
30 Festuca ovina L. β

1-30. Cape May, N.J. ~~[illegible]~~; 8/20/16

Distichlis spicata (L.) Greene ψ 31
Elymus halophilus ψ 32
Echinochloa walteri (Pursh) Nash ψ 33
Glyceria pallida (Torr.) Trin. β 34
Diodia virginica L. β 35
Sorghastrum nutans (L.) Nash ψ 36
Helianthus divaricatus L. T 37
Galium hispidulum Michx. T 38
Arctostaphylos uva-ursi (L.) Spreng. T 39
Trichostema lineare Walt. T 40
Polygonella articulata (L.) Meisn. ψ 41
Gerardia tenuifolia Vahl. T 42
Corallorhiza odontorhiza Nutt. Δ 43
Andropogon elliottii Chapm. ψ 44
Oldenlandia uniflora L. Δ 45
Panicum verrucosum Muhl. ψ 46
" condensum Nash ψ 1 47
Euphorbia maculata δ 48

31-47. Cape May, N.J. ~~[illegible]~~ 8/20/16

No.	Species		5	10	15
61					
62					
63					
64					
65					
66					
67					
68					
69					
70					
71					
72					
73					
74					
75					
100					
101	Sabatia angularis (L.) Pursh	Ω			/
102	Juncus brachycarpus Engelm.	Ω			/
103	Paspalum plenipilum Nash	α			
104	Gratiola pilosa Michx.	Ω			/
105	Tecoma radicans (L.) Juss.	δ			
106	Baccharis halimifolia L.	δ		/.	
107	Erigeron pumilus Pursh	δ		1	/
108	Cyperus grayi Torr.	δ		/.	
109	Plantago aristata Michx.	δ			
110	Diodia teres Walt.	δ			
111		δ			
112	Carex albolutescens	S			
113	Juncus gerardi Loisel.	S			
114	Cyperus nuttallii Eddy	S			
115	Oxypolis rigidior (L.) Coult. & Rose	Ω			

101-115. Cold Spring, N. J. (Cape May Co.) 8/20/16

Species		5	10	15	No.
Gerardia maritima Raf.				1 /	116
Brassica nigra L.	δ				117
Lythrum lineare L.	ε		/.	/.	118
Aster tenuifolius L.	‡			/	119
Mollugo verticillata L.	S		/.		120
Linaria elatine L.	ς				121
Oenothera	ψ				122
" linearis Michx.	ψ				123
Pycnanthemum flexuosum (Walt.) B.S.P.	ε		/.		124
Hibiscus moscheutos L.	ε				125
Cyperus cylindricus (Ell.) Britt.	ς				126
Panicum	ς				127
Lobelia puberula Michx.	Ω				128
Myrica cerifera L.	Ω				129
Fuirena hispida Ell.	Ω				130
Rosa virginiana Mill.	Ω				131
	Ω				132
Nyssa sylvatica Marsh	Ω				133
Aster novi-belgii littoreus Gray	Ω		/	/	134
Calamagrostis cinnoides (Muhl.) Barton	Ω				135
Asclepias lanceolata Walt.	Ω			1	136
Solidago odora Ait.	Ω		/.		137
Sabatia dodecandra (L.) B.S.P.	Ω				138
" stellaris Pursh	β		/.		139
Quercus phellos L.	Ω		/.		140
" " laurifolia Michx. (?)	Ω		/.		141
					142
Oenothera longipedicellata (Small) Robins.	Ω				143
Setaria magna Griseb.	S			/.	144
Tripsacum dactyloides L.			/.		145
Cyperus strigosus robustior Kunth	Ω				

116-145. Cold Spring, Cape May Co., N. J. 8/20/16

146 Cyperus robustus S
147 Iva oraria Bartlett δ
148 Sonchus δ
149 Ruppia maritima L. ε
150 ~~Polygonum~~ Acnida cannabina L.
151 Juncus debilis Gray S
152 Desmodium marilandicum (L.) DC.
153 Polygonum hydropiperoides Michx.
154 Galium erectum Huds.
155 Polygonum muhlenbergii (Meisn.) Wats.
156 Habenaria ciliaris (L.) R. Br. Ω
157 Chrysopsis mariana (L.) Nutt. S
158 Gymnopogon brevifolius Trin. T
159 Lonicera caerulea villosa (Michx.) T. & G.
160 Liquidambar styracif Δ
161 Polygonatum commutatum (R. & S.) Dietr. Ω
162 Boltonia asteroides (L.) L'Her. Ω
163 Ludwigia sphaerocarpa Ell. Ω
164 Solidago fistulosa Mill. Ω
165 Isoëtes engelmanni A. Br. Ω
166 Sabatia lanceolata (Walt.) T. & G. Ω
167 Elymus haliphylla Ω
168 Eragrostis pilosa (L.) Beauv. T
169 Salix tristis Ait. Δ
170 Spartina cynosuroides (L.) Roth
171 Ilex opaca Ait. Δ
172 Spiranthes praecox (Walt.) W. & C. Ω
173 Lycopodium carolinianum L. Ω
174 Polygala ramosa Ell. Ω
175 Fuirena squarrosa Michx. Ω

146-149. Cold Spring, Cape May Co., N. J. 8/20/16
150-175. Bennett, " " " " "

Fimbristylis autumnalis (L.) R. & S. Ω 176
Rynchospora fusca (L.) Ait. f. Ω 177
Panicum wrightianum Ω 178
" ashei Pearson Ω 179
Rynchospora macrostachya Torr. Ω 180
Rottboellia rugosa Nutt. Ω 181
Sagittaria Ω 182
Habenaria nivea (Nutt.) Spreng. 183
Proserpinaca palustris L. V 184
" pectinata Lam. V 185
" intermedia ~~Mack.~~ Mackenzie V 186
Xyris elata Chapm. Ω 187
Lycopodium alopecuroides L. Ω 188
Lespedeza violacea (L.) Pers. T 189
Lechea T 190
Lechea minor L. T 191
Hypericum virgatum ovalifolium Britton T 192
" adpressum Bart. T 193
Eupatorium verbenaefolium Michx. T 194
Polygonum setaceum Baldw. Ω 195
Lacnanthes tinctoria (Walt.) Ell. Ω 196
197
Helianthemum canadense T 198
Rynchospora rariflora Ω 199
200
Epipactis pubescens (Willd.) A. A. Eaton γ 201
Tipularia discolor (Pursh) Nutt. γ 202
Panicum wrightianum α 203
Chimaphila maculata (L.) Pursh γ 204
205

176-199. Bennett, Cape May Co., N. J. 8/20/16
200-205. West Cape May, N. J. 8/21/16

206 Mitchella repens L. γ
207 Carya tomentosa γ
208 Lonicera sempervirens L. γ
209 Lespedeza virginica (L.) Britton γ
210 Linum floridanum (Planch.) Trel. β
211 Liatris graminifolia dubia Gray β
212 Stenophyllus capillaris (L.) Britton T
213 Woodwardia areolata (L.) Moore γ 1· 1·
214 Juncus setaceus Rostk. T
215 Ceratophyllum demersum L. # 1
216 Potamogeton pulcher Tuckerm. # 1·
217 Pinus taeda L. Δ
218
219
220
221 Scleria triglomerata Michx.
222 Leersia virginica Willd.
223
224
225
226
227
228
229
230
250 Monarda punctata α D
251
252 Oenothera humifusa Nutt. ψ 1·
253 Psedera quinquefolia (L.) Greene δ
254 Xanthium echinatum Murr. ψ
255 Prunus maritima Wang. ψ 1

206-230. West Cape May, N.J. 8/21/16
250-255. Cape May Point, N.J. 8/23/16

Cyperus ovularis (Michx.) Torr. S 256
Hudsonia tomentosa Nutt. S 1 1 257
Hieracium gronovii L. S 258
" " x scabrum ~~(L.) Britton~~ S 259
Stenophyllus capillaris (L.) Britton T 260
Vitis labrusca L. T 261
Uniola laxa (L.) B.S.P. ψ 1· 1· 262
Sacciolepis striata (L.) Nash B 263
Hypericum virginicum L. T 264
Hydrocotyl umbellata L. Ω 1· 265
Ludvigia alternifolia L. Ω 1· 1· 266
Polygonum ~~aviculare littorale~~ (Link) Koch prolificum (Small) Robin! ψ 1 ! Brandl 267
Eragrostis pectinacea (Michx.) Steud. ψ 1 268
Chenopodium ambrosioides anthelminticum (L.) Gray ψ 1· 269
Cenchrus ψ 270
Viburnum prunifolium L. ψ 271
Ptilimnium capillaceum (Michx.) Raf. β 1· 272
Rhexia virginica L. T 273
" mariana L. T 1· 274
(Meibomia obtusa (Muhl.) Kuntze) Desmodium obtusum T 1 275
Limonium carolinianum (Walt.) Britton ξ 276
Pinus serotina Michx. T 277
Quercus pagodaefolia T 1· 278
Utricularia Ω 279
Opuntia vulgaris Mill. S 280
Acer rubrum tridens Wood. Δ 301
Ilex glabra (L.) Gray Δ 302
Panicum xalapense HBK T 303
Zizania palustris L. V 304
Populus alba L. T 305

256-280. Cape May Point, N.J. 8/23/16
300-305. Tuckahoe, N.J. 8/24/16

306 Chamaecyparis thyoides (L.) B.S.P. σ
307 Kosteletzkya virginica (L.) Presl. Ɛ
308 Crotalaria sagittalis L. α
309 Asclepias rubra L. α
310 Bidens bipinnata L. ℌ
311 Holcus lanatus L. T
312
313 Kalmia latifolia L. Δ
314 Aster dumosus strictior T. & G. Δ
315 Alnus rugosa (Du Roi) Spreng. Δ
316 Acnida cannabina L. α
317 Gerardia purpurea L. Ɛ
318 Amaranthus hybridus L. α
319 Galium tinctorium L. γ
320 Trichostema dichotoma L. α
321 Bartonia paniculata (Michx.) Robins. ¥
322 Eleusine indica Gaertn. α
323 Ipomoea hederacea Jacq. α
324
325 Portulacca oleracea L. α
326 Spartina cynosuroides (L.) Roth Ɛ
327 Polygala nuttallii T. & G. T
328 Lespedeza angustifolia (Pursh) Ell. T
329 Desmodium dillenii Darl. T
330 Linum medium (Planch.) Britton T
331 Lechea maritima Leggett T
332 Lyonia ligustrina (L.) DC. Δ
333 Quercus lyrata Walt. Δ
334 " falcata Michx. Δ
335 " stellata Wang. Δ
336 Iris virginica o

306-336. Tuckahoe, N. J. 8/24/16

Hypericum sarothrae T 382
Pluchea camphorata (L.) DC. Ɛ 350
Rubus argutus Link α 351
Spiranthes vernalis Engelm. & Gray Ω 352
Eryngium aquaticum L. Ω 353
Sclerolepis uniflora (Walt.) B.S.P. Ω 354
Polygonum pennsylvanicum L. Ω 355
Stylosanthes biflora (L.) B.S.P. T 356
Juncus greenei T 357
Scirpus olneyi Gray Ɛ 358
" robustus Pursh Ɛ 359
Paspalum floridanum Michx. α 360
Rynchospora glomerata Vahl 361
Sagittaria longirostrata (Micheli) J. G. Sm. ♯ 362
Spiranthes beckii Lindl. S 363
Lobelia nuttallii R. & S. S 364
Eleocharis tuberculosa (Michx.) R. & S. H 365
Fimbristylis castanea (Michx.) Vahl Ψ 366
Habenaria cristata (Michx.) R. Br. Ω 367
Cunila origanoides (L.) Britt. T 368
Polygala cruciata L. Ω 369
" lutea L. Ω 370
Xyris flexuosa Muhl. Ω 371
Lycopodium inundatum bigelovii Tuckerm. Ω 372
Eriocaulon compressum Lam. Ω 373
Eupatorium hyssopifolium L. T 374
" rotundifolium L. T 375
Utricularia cleistogama (Gray) Britton Ω 377
" virgatula Barnh. 378
" gibba L. Ω 379
" juncea Vahl Ω 380
Smilax rotundifolia L. T 381
Eupatorium coelestinum L. T 376

350-382. Cold Spring, Cape May Co., N. J. 8/22/16

400 Polygonella articulata

401

402 Leersia oryzoides (L.) Sw. L

403 Galium claytoni Michx. L

404 Leiophyllum buxifolium (Berg.) Ell. L

405 Andropogon glomeratus (Walt.) BSP L

406 Juncus aristulatus Michx. L

407 Hudsonia ericoides L. L

408 Drosera filiformis Raf. L

409 Crataegus L

410 Solidago erecta Pursh L

411 Asplenium platyneuron (L.) Oakes α

412 Tephrosia virginiana (L.) Pers. △

413 Chrysopsis mariana (L.) Nutt. △

414 Aster spectabilis Ait. L

415 Sisyrinchium atlanticum Bicknell O

416 Aster dumosus L. O

417 Helianthus angustifolius L. O

418 Plantago virginica L. β

419 Euphorbia ipecacuanhae L. L

420 Aster patens Ait. L

421 Rynchospora alba (L.) Vahl ⓛ

422 " filifolia ⓛ

423 Juncus pelocarpus Mey. L

424 Gratiola aurea Muhl. L

425 Solidago puberula Nutt. L

426 Smilax glauca Walt. L

427 Magnolia virginiana L. △

428 Vernonia fasciculata Michx. T

429 Solidago tenuifolia Pursh T

430 Pyxidanthera barbulata Michx. L

400 Atlantic City, N.J. 8/27/16

401-430. Hammonton, N.J. 8/29/16

Aster dumosus coridifolius (Michx.) T. & G. △ 431

Euphorbia corollata L. L 432

Smilax laurifolia L. △ 433

Castalia odorata minor ⊡ 434

Rhododendron flavescens (Pursh) Nutt. ⓝ 435

Arenaria caroliniana Walt. L 436

Paspalum setaceum Michx. L 437

Panicum L 438

Rynchospora glomerata (L.) Vahl L 439

Scirpus subterminalis Torr. ⊡ 440

Cenchrus carolinianus Walt. T 441

Cyperus grayi Torr. T 442

Gerardia ~~setacea Walt.~~ virgata Raf. T 443

Lycopus sessilifolius Gray ⓛ 444

Rubus α 445

Polygala brevifolia Nutt. T 446

Xyris congdoni L 447

Cuscuta arvensis Beyrich L 448

Desmodium canescens (L.) T 449

Lophiola aurea Ker 450

Lobelia canbyi Gray β 451

Hypericum mutilum L. T 452

Juncus T 453

Cyperus diandrus Torr. T 454

Juncus canadensis J. Gay T 455

Betula populifolia Marsh. △ 456

Eriophorum virginicum L. ⓛ 457

Smilax tamnifolia Michx. △ 458

Lygodium palmatum (Bernh.) Sw. H 459

Castalia odorata rosea (Pursh) Britt. ⊡ 460

431-449. Hammonton, N.J. 8/29/16

450-460. Atsion River, near Batsto, N.J. 8/30/16

461 Viburnum nudum L.
462 Xyris caroliniana Walt. Ⓛ
463 Cuscuta compacta Juss. Ⓛ
464 Lespedeza hirta oblongifolia Britton L
465 Eriocaulon decangulare L. Ⓛ
466 Hypericum densiflorum Pursh L
467 Quercus marilandica Muench. Δ
468 " prinoides Willd. Δ
469
470 Eupatorium resinosum Torr. L
471 " leucolepis T. & G. L
472
473
474 Polygala nuttallii T. & G. L
475 Panicum L
476 Abama americana Ⓛ
477 Breweria pickeringii (M.A. Curtis) Gray L
478 Glyceria obtusa (Muhl.) Trin. Ⓛ
479 Eleocharis olivacea Torr. Ⓛ
480 Panicum Ⓛ
481 Carex striata brevis Bailey Ⓛ
482 Glyceria obtusa (Muhl.) Trin. Ⓛ
483 Chrysopsis falcata (Pursh) Ell. L
484 Lophiola aurea Ker Ⓛ.
485 ×
486 Lysimachia terrestris R. Ⓛ D
487
488
489
490

460-474. ~~Batsto~~ Atsion, N. J. 8/20/16
475-484. Batsto, N. J. "

Galium pilosum puncticulosum (Michx.) T. & G. Δ 501
Gerardia ~~racemulosa~~ holmiana Greene (Gerardia Pennell) X 502
Viburnum nudum L. L 503
Aster gracilis Nutt. L 504
Pteris L 505
Schizaea pusilla Pursh © 506
Asclepias amplexicaulis Sm. 507
Ipomoea pandurata (L.) Mey. L 508
Helonias bullata L. X 509
Liatris spicata (L.) Willd. L 510
Itea virginica L 511
Leucothoë racemosa (L.) Gray L 512
Quercus ilicifolia Wang. Δ 513
" prinus L. Δ 514
Eupatorium purpureum L. L 515
516
Citrus vulgaris Risso 517
518
519
520
Coreopsis 521
Carex silicea Olney Ψ 522
Agrostis perennans alata (Pursh) Hitchc. Ψ 523
Eragrostis pilosa (L.) Beauv. Ψ 524
Panicum verrucosum Muhl. Ψ 525
~~Rynchospora~~ Cyperus Ψ 526
Festuca ovina L. Ψ 527
Distichlis spicata (L.) Greene Σ 528
Elymus halophilus Σ 529
Echinochloa walteri (Pursh) Nash Σ 530
~~Glyceria~~

500-524. Tuckahoe, N. J. 8/31/16
525-530. ~~Hammonton, N. J.~~ Cape May, N. J. 8/20/16 See Nos. 29-34.

531
532
533 Eragrostis pectinacea
534 Lysimachia [illegible]
535
536
537
538
539
540 Eragrostis pectinacea (Michx.) Nees 1
551 Lechea racemulosa Lam. L 1
552 " villosa Ell. L
553 Lyonia mariana (L.) D. Don. L 1 1
554 Ascyrum stans Michx. L
555 " hypericoides L. L
556 Hypericum canadense L. L
557 Eupatorium album L. L
558 " aromaticum L. L
559 " pubescens Muhl. L 1
560 Bartonia virginica (L.) BSP (L) 1 1
561 Aster L
562 Gaylussacia frondosa (L.) T.&G. Δ 1
563 " dumosa (Andr.) T.&G. Δ
564 " baccata (Wang.) K. Koch Δ
565 Utricularia subulata L. <
566 Viola primulifolia L. o
567 Clethra acuminata Michx. Δ
568 Xyris fimbriata Ell. (L)
569 Corema conradi Torr. L
570a Gaylussacia brachycera L
570 Kuhnia virginiana (L.) Willd. ! Beale

551-568, 570 Hammonton, N. J. 9/1/16
569. From plant growing native in "Central N. J."
570a Perry Co., Pa. E. W. Barrett; transpl. to Hammonton, coll. E.W.K. 9/1/16

Coreopsis T 571
Solidago fistulosa Ham. 1. 572
Chamaedaphne calyculata H. 1. 1. 573
Xyris Lily Lake 1. 574
" ~~Batsto~~ Ham 1. 575
" Ham. 1. 576
Drosera rotundifolia D 1 577
~~Chas~~ Hypopitys ~~lanuginosa~~ ~~Nutt.~~ Mayship 1. 578
Eup. 579

Salix ~~humilis~~ bebbiana Sarg. Sullivan 5/3/13 600
" lucida Muhl. Moniton 7/4/15 601
" nigra Marsh. Mendham 5/3/11 602
" ~~[illegible]~~ fragilis L.? Corbetts Glen 4/25/15 603
" ~~pedicellaris~~ hypoglauca Fern. Buck Pond 7/5/15 604

571 Pushkip.
572— Hammonton

No.	Species	Locality	Date
			1906
700	Hypoxis hirsuta Coville	Pleasant View, R. I.	Aug.
701	Spiranthes gracilis	" "	"
702	" praecox	" "	"
703	Euphorbia helioscopia	Digby, N. S.,	1911 July
704	Potentilla palustris	4th Lake	1909 July
705	Mediola virginiana L.	"	"
706	Peltandra virginica	Mendon	6/29/13
707	Geranium bicknellii	Gromwell Hog Ont.	7/14/13
708	Barbarea vulgaris	Sudbury Ont	7/18/13
709	Rumex verticillatus	Lake Ramsay "	"
710	Lespedeza hirta	Irondequoit Bay	7/26/13
711	Epilobium hirsutum	Mendon, N. Y.	8/4/13
712	Conioselinum chinense	Golah, "	9/23/13
713	Viola	Egypt "	5/2/14
714	Polygonum sagittatum	Long Pond	7/31/14
715	Athyrium filix-foemina	Sullivans	7/19/14
716	Diospyros	7th Lake Wds	8/23/14
717	Myrica gale L.	Mos Lake Inlet	8/9/14
718	Alnus incana	"	"
719	Corydalis ~~glauca~~ sempervirens (L.) Pers.	Bald Mt.	8/10/14
720	Dryopteris thelypteris	Dunes Pond	8/10/14
721	Lycopodium obscurum dendroideum	Mt. Pond	8/11/14
722	Hypericum boreale	"	"
723	Hypericum virginicum	Agate Swamp	8/10/14
724	Kneiffia	Blakers	8/9/14
725	Potentilla tridentata	Black Bear	8/12/14
726	" "	Mt. Marcy	8/19/14
727	Aralia hispida	Bald Mt.	8/10/14
728	" "	Mt. Marcy	8/19/14
729	Spiranthes cernua	Heart Lake	8/18/14
~~730~~	"	" "	"
730a	Salix ~~discolor~~ lucida Muhl	Sullivans	5/3/14

Species	Locality	Date	No.
Kneiffia	North Elba, N. Y.	8/18/14	731
Barbarea	The Bronx, N. Y.	5/10/15	732
Veratrum viride	" "	"	733
Uvularia perfoliata	" "	"	734
Viola primulifolia	Dobbs Ferry "	5/11/15	735
Alliaria officinalis Andrz.	" "	"	736
Sedum acre	Palisades, N. J.	"	737
Osmunda regalis	" "	"	738
Viola pectinata	Woodmere, L. I.	5/15/15	739
" brittoniae	"	"	740
" lanceolata	"	"	741
Euphorbia ipecacuanhae	"	"	742
Rhus toxicodendron	"	"	743
	"	"	744
Quercus falcata	Lawrence, L. I.	"	745
Myrica asplenifolia	" "	"	746
Woodwardia areolata	" "	"	747
Cakile edentula	Far Rockaway	"	748
Arenaria	"		749
Salix ~~[illegible]~~ subsericea Sarg.	"	"	750
Festuca duriuscula	"	"	751
Oxalis	Staten Island.	5/29/15	752
Cerastium oblongifolium	" "	5/20/15	753
Smilax rotundifolia L.	" "	"	754
Vaccinium vacillans	Lawrence L. I.	5/15/15	755
Lithospermum arvense	Far Rockaway "	"	756
~~[illegible]~~ [illegible]nium carolinianum	"	"	757
Rhododendron nudiflorum	Hastings, N. Y.	5/11/15	758
Lonicera morrowii	" "	"	759
Clethra alnifolia	Pleasant View R. I.	Aug. '06	760.
~~Salix candida~~	~~Bergen~~		~~761a~~
~~" [illegible]~~	~~Far Rockaway~~	~~[illegible]~~	~~[illegible]~~

No.	Name	Locality	Date	
761	Gerardia purpurea	Pleasant View R.I.	Aug '06	
762	Solidago graminifolia	" "	"	
763	Sericocarpus asteroides	" "	"	
764	Kalmia angustifolia	Bubb Lake	8/9/14	
765	Chimaphila umbellata	Saranac Lake	8/17/14	
766	Ledum groenlandicum Oeder	Mt. Pond	8/9/14	1
767	Andromeda glaucophylla	Bubb Lake	"	
768	Lobelia cardinalis L.	Raquette River	8/15/14	
769	Pyrola elliptica	4th Lake	8/9/14	
770	Lobelia dortmanni L.	Mt. Pond	"	
771	Scutellaria epilobiifolia Ham.	4th Lake	~~Aug~~ "	
772a	Houstonia caerulea	Stony Creek	8/21/14	
773	Linnaea borealis	Mt. Marcy	8/19/14	
774	Lonicera caerulea velosa	Lake Tear	8/20/14	
775	Solidago ~~macrophylla~~ graminifolia	Black Bear Mt.	8/12/14	
776		Bald Mt.	8/10/14	
777	Aster	"	"	
778	Cerastium	Turk Hill	2/22/15	
779	Salix ~~discolor~~ discolor Muhl.	Gulick	5/30/15	
780	" humilis Marsh	"		
781	" ~~nigra~~ bebbiana Sarg.	"		
782	" rostrata "	"		
783	Lycopodium clavatum L.	"		
784	Trillium cernuum	Clearwater	May '15	
785	Anemone canadensis	Golah	5/12/15	
786	Trillium erectum	"	"	
787	Cardamine bulbosa	Ithaca	5/23/15	
788	Acer saccharum	Mendon	5/18/15	
789	Morus alba	"	5/18/15	
790	Salix pedicellaris Pursh	"	"	
775a	Cicuta bulbifera	Brown's Tract In.	8/15/14	
772	Potamogeton epihydrus Raf	Stony Creek	8/16/14	

Name	Locality	Date		No.
Salix ~~[illegible]~~ bebbiana Sarg.	Mt. Greylock	6/6/15	10	791a
Vaccinium corymbosum	Mendon	5/18/15		791
Sericocarpus asteroides	"	"		792
Carex	Long Pond	7/3-5/15		793
"	Manitou	"		794
Hordeum jubatum	"	"		795
Sagittaria	~~Bush~~ Long Pond	"		796
"	" "	"		797
"	" "	"		798
Pyrola elliptica Nutt.	" "	"		799
Trifolium arvense	Simpsons			800
Epilobium molle	Braddock Bay	7/3-5/15	1	801
Astragalus canadensis L.	" "	"	1	802
Potentilla anserina L.	" "	"		803
P. " paradoxa Nutt.	" "	"	1	804
Radicula palustris hispida	" "	"		805
Cerastium vulgatum	" "	"		806
Polygonum persicaria	" "	"		807
" aviculare littorale	" "	"		808
Salix ~~longifolia Muhl.~~ interior Rowlee	" "	"	1	809
" cordata ~~myricoides~~ Muhl.?	" "	"		810
" ~~amygdaloides Anders.~~ nigra Marsh	" "	"		811
~~Pyrus~~ [illegible]	~~Sickapsoon~~	6/28/15		812
Myosotis	"	6/28/15		813
Galium	"	"		814
Dryopteris goldiana	Egypt, NY	6/13/15		815
Gaylussacia	Bergen, NY	6/15/15		816
Dryopteris ~~boottii~~	" "	"		817
Salix candida Flügge	" "	"	1	818
Viola nephrophylla	" "	"		819
Prunus	Adams Basin	8/1/15		820
Centaurea americana	Manitou	7/4/14		795a
~~Salix lucida~~	~~" "~~	"		79-
Salix lucida Muhl.				811a

No.	Species		Locality	Date
822a.	Myrica			
821	Lychnis alba		Adams Basin N.Y.	8/1/15
822a	~~Myrica~~ Comptonia tryloba ~~Vitis aestivalis~~		"	"
823	Carex tribuloides Wahl.		"	"
824	" intumescens Rudge		"	"
825	Phalaris arundinacea Linn.		"	"
826	Salix ~~fragilis~~ cordata Muhl.		Ithaca N.Y.	5/24/15
827	Lycopodium annotinum L.		Montreal	Aug. '15
828	Artemisia		"	"
829	" canadensis Mx.		"	"
830	Helianthus		"	"
831			"	"
832	Solidago		"	"
833	Erigeron		"	"
834	Serapias helleborine		"	"
835	Potentilla monspeliensis L.		Quebec	"
836	Cicuta bulbifera	K	Lake St. John near Chambord Jct.	"
837	Viola palustris		" (3)	"
838	Lathyrus maritima	Ψ	"	"
839	Hedysarum boreale Nutt.	Ψ	"	"
840	Dryopteris thelypteris		"	
841	Athyrium filix-foemina		"	
842	Dryopteris marginalis		"	
843	Osmunda regalis		"	
844	Polystichum braunii		"	
845	Dryopteris spinulosa var.		"	
846	Phegopteris polypodioides		"	
847	Lithospermum		"	
848	Rhinanthus kyrollae Chabert	Ψ	"	
849	Scutellaria epilobiifolia Hamilt.		"	
850	Astragalus alpinus	Ψ	"	
830a	Potentilla		Montreal	
~~835a~~	~~Salix cordata~~			

Species		Locality	Note	No.
~~Salix~~				~~851a~~
Mitella nuda	σ	Lake St. John e. of C. Jct.		851
Artemisia caudata Mx.		"		852
Carex tribuloides Wahl.	β	"		853
Cystopteris bulbifera (L.) Bernh.		"		854
Erigeron canadensis	β			855
Solidago		"		856
Senecio pauperculus Mx.	σ	"		857
Mitella nuda	σ	"	w. of C. J. = 851	858
Gnaphalium uliginosum	β 5/6	"	"	859
Potentilla	β	Chambord Jct.		860
Persicaria hydropiperoides	σ	East of "		861
Pteridium		Chambord Jct.		862
Epilobium adenocaulon	(8)	"	"	863
	β	3 mi. w. of "	"	864
Viola renifolia	β	"		865
Salix ~~rostrata~~ × bebbiana Sarg.	σ	"		866
Spiranthes	σ	"		867
Corallorhiza maculata	σ	"		868
Habenaria hookeri	σ	"		869
Spiranthes romanzoffiana	σ	"		870
Habenaria	σ	"		871
"	σ	"		872
"	σ	"		873
~~Carex~~ "	~~β~~ σ	~~Chambord Jct.~~ "		874
Euphrasia canadensis	σ	Chambord Jct.		875
Habenaria obtusata	σ			876
Listera convallarioides	σ			877
Microstylis monophylla	σ			878
Epipactis repens ophioides	σ			879
Equisetum sylvaticum	σ			880
~~Salix glaucophylla Bebb.~~		~~Lake St John~~		~~880a~~

881	Phegopteris dryopteris	♂	3 mi. w. of Chambord Jct.
882	Dryopteris novaboracensis	♂	Lake St. John
883	Pyrola secunda obtusa	♂	"
884	"	♂	
885	Moneses uniflora	♂	
886	Pyrola	♂	
887	"	♂	
888	Galium asprellum	♂	
889	Menyanthes trifoliata	♂	
890	Agrimonia	♡	Chicoutimi
891	Ambrosia artemisifolia	♡	Tadousac
892	Chenopodium album?	♡	Chicoutimi
893	Alnus	♡	Chicoutimi
894	Smilicina trifoliata Desf.	♡	"
895	Polypodium vulgare	*	"
896	Lycopsis arvensis	*	"
897	Habenaria clavellata	s	Laurentian Mts near Lake Edward
898	Spiranthes		"
899	Phegopteris polypodioides		Montmorency Falls
	Hieracium vulgatum		Quebec
8 a	Prenanthes		"
890a	Lycopodium lucidulum		Lake St. John
895a	Pottiella tridentata		Tadousac

No.	Species		1917	Locality	5	10	15
900	Saxifraga aizoon Jacq.	ω	8/2	Smugglers Notch, VT.		1	1
901	" oppositifolia L.	ω	"	"		1	
902	" aizoides L.	ω	"	"		1	1
903	Castilleja pallida septentrionalis (Lindl.) Gray	ω	"	"			
904	Arenaria groenlandica (Retz.) Spreng.	x	7/26	Mt. Marcy, N.Y.			
905	Artemisia			Smugglers Notch, VT.			
906	Vaccinium vitis-idaea minus Lodd	x	8/3	Mt. Mansfield, VT.		1	1
907				Stowe			
908	Lycopodium	x	"	"			1
909	Pinguicula vulgaris L.	ω	8/2	Smugglers Notch, VT.			
910	Asplenium viride Huds.	ω	"	"	1	1 1	
911	Erigeron hyssopifolius Michx.	ω	"	"			
912	Isoëtes	⊡	7/30	Heart Lake, N. Elba, N.Y.		1	1 1
913	Myriophyllum humile (Raf.) Morong	⊡					1
914	~~Rhododendron lapponicum~~ ~~Vaccinium uliginosum~~	ω		~~Mt. Marcy~~ ~~Smugglers Notch, VT.~~			
915	Draba arabiscans Michx.	ω		Smugglers Notch		1	1 1
916	Botrychium			Wood Farm, No. Elba		⩩	
917	Hippuris vulgaris L.	#	7/28	Averyville Creek, N. Elba N.Y.			1
918	Kalmia polifolia Wang.	Φ	"	" Marcy ~~Summit~~ " "			
919	Habenaria blephariglottis (Willd.) Torr.		8/7	Agatha Swamp " "		1	1
920	" clavellata (Michx.) Spreng.		"	Mirrorbrook Swamp		1	1
921	Moneses uniflora (L.) Gray		7/24	Keene Valley, Essex Co. N.Y.			
922	Listera cordata (L.) R. Br.		7/25	Marcy Brook trail, " "			
923	" "		7/26	Opalescent " " "			
924	Draba arabiscans orthocarpa Fern. & Kn.		8/2	Smugglers notch			
925	Hedysarum boreale Nutt.	ω	8/2	Smugglers Notch, VT.		1	1
926	Astragalus blakei Egglest.	ω	"	"		1	1
927	Actaea rubra f. neglecta		7/27	Wood Farm - Cascade			
928	Rubus		8/2	Smugglers Notch, VT.			
929			8/3	Mansfield			
930	" Xyris montana Ries	<	8/8	White Lake, Herkimer Co.		1 1	
930	Woodsia glabella			Smugglers Notch, VT.			

No.	Species		1917	Locality		5	10	15
931	Potamogeton ~~heterophyllus graminifolius~~ ~~epihydrus Raf.~~ amplifolius (Cited by Ogden)	#	7/22	Antwerp, St. Lawrence Co.				/
932	Galium sylvaticum L.	β	7/29	North Elba (Round Lake)		1		/
933	Callitriche palustris			Elm Wood Farm, No. Elba				
934	Hydrocotyle americana L.	o	7/29	Wood Farm, N. Elba				
935	Stellaria borealis Bigel.	x	7/26	Mt. Marcy		1		/
936	Galium	—	"	" Colden 1100 m.				
937	Hypericum ellipticum Hook.			Averyville Marsh				
938	Galium			Williamstown, VT.				
939	Houstonia purpurea L.	♡	8/5	Glenmount, Albany Co.				
940	Cerastium arvense L.	♡	8/5	" "		1		
941	Polypodium vulgare attenuatum Milde	ω	7/31	Wilmington Notch, Essex Co.				
942	Baptisia australis (L.) R. Br.	‡	8/4	Royalton, VT.				/
943	Solidago	ω	8/2	Smugglers Notch, VT.		1		
944	Rhamnus cathartica L.	·		Glenmount, Albany Co.		1		
945	Potentilla arguta Pursh	ξ	8/15	~~Port Henry, N.Y.~~				
946	Origanum vulgare L.	♡	8/5	Glenmount, Albany Co.		1		/
947	Dryopteris dilatata	γ	7/26	Lake Colden, Essex Co.		1		
948	Ranunculus aquatilis capillaceus DC.	#		McIntyre Brook,				
949	Galium							
950a	Lonicera caerulea villosa (Michx.) T. & G.		7/26	Lake Tear-of-the-Clouds Essex Co.				
951	Potentilla intermedia L.	α	~~8/8~~ 8/11	~~Glenmount, Albany Co.~~ Port Henry, N.Y.		1		1
952	Stachys aspera		8/8	Sylvan Beach				
953	Dryopteris simulata		8/8	Sylvan Beach, Madison Co.	1	1	1	1
954	Clintonia borealis var.	γ	8/7	4th Lake, Herkimer Co.				
955	Ilysanthes dubia (L.) Barnhart		8/8	Sylvan Beach, Madison Co.				
956	Rhexia virginica L.		8/8	"				
957	Solidago erecta Pursh	α	7/24	St. Huberts, Essex Co.				
958	Eriocaulon septangulare	▣	8/8	White Lake, Herkimer Co.		1	1	
959	Empetrum nigrum L.	x	7/26	Mt. Marcy		1	1	1
960	Diapensia lapponica L.	X	7/26	"		1	1	1
950	Eupatorium	ω	8/2	Smugglers Notch				

			1919					
961	Gentiana linearis Froel.	β	7/29	North Elba, Essex Co.		1	1	1
962	Lobelia dortmanni L.	▣	7/30	Heart Lake, "		1 1		
963	Isoëtes ~~#912~~	▣	7/26	Avalanche Lake "				
964	Rhododendron lapponicum (L.) Wahlenb.	x	7/26	Mt. Marcy, "		1		
965	Solidago cutleri Fernald	x	"	"		1		1
966	Polystichum braunii (Spenner) Fée	γ	8/2	Smugglers Notch, VT.	1	1		
967	Spiraea latifolia Borkh.	β	7/30	Wood Farm, No. Elba		1		
968	Stellaria longifolia Muhl.	–	7/25	Toryea Camp, 5 mi. above South Meadows.		1		
969	Woodsia ilvensis		7/23	Beaver Meadow Fall, Keene Valley				1
970	Botrychium		7/24	Wood Farm, North Elba, N.Y.				1
971	Stellaria longifolia		"	"				1
972	Epilobium molle		7/29	"				
973	Oenothera cruciata	x	7/24	North Elba, N.Y.				1
974	Campanula aparinoides Pursh	/	7/29	Wood Farm, North Elba, N.Y.				1
975	Spiraea latifolia		7/24	"				1
976	Salix uva-ursi	x	7/26	Mt Marcy summit 1650 m.				1
977	Solidago macrophylla	γ	"	Marcy Brook trail				
978	Lycopodium	γ	"	"				1
979	Lonicera oblongifolia	φ	"	Lake Tear-of-the-Clouds				
980	Lycopodium annotinum pungens	x	"	Mt. Marcy, 1650 m.				1
981	"	β	7/30	Heart Lake trail				1
982	"	β	"	"				1
983	Habenaria orbiculata Cav.	γ	"	Indian Pass		1		
984	Rhododendron lapponicum	x	8/3	Mt. Mansfield, VT.				
985	Myosotis	o	8/9	Junius, Seneca Co., N.Y.				
986	Teucrium		8/8	Sylvan Beach				
987	Pentstemon		"	"				
988	~~Lonicera~~		8/6	~~Mt. Pond, 4th Lake~~				
989	Hypericum canadense			White Lake, Herkimer Co.				
990	Epipactis repens ophioides (Fern.) Eaton		8/6	4th Lake		1		
991	Lycopodium inundatum			White Lake, Herkimer Co.				
992	Epilobium			St. Huberts				
993	Polystichum braunii (Spenner) Fée			Lower Ausable Lake				

5 10 15

1300 Carex ~~aurea Nutt.~~ laxiflora
1301 " leptalea Wahlenb.
1302 " riparia W. Curtis
1303 "
1304 "
1305 " leptalea Wahlenb.
1306 " tenella Schkuhr
1307 " pedunculata Muhl.
1308
1309 " arctata Boott
1310 " anceps Muhl.
1311
1312
1313 " eburnea Boott
1314 " deweyana Schwein.
1315 " communis Bailey
1316 " plantaginea Lam.
1317 " communis Bailey
1318 " deweyana Schwein.
1319 " ~~stellulata Good.~~ convoluta Mack. det KKM
1320 " arctata Boott
1321
1322
1323 " communis Bailey
1324 " crinita Lam.
1325 " laxiflora Lam.
1326 " prasina Wahlenb.
1327 " limosa L.
1328 Eriophorum callitrix Cham.
1329
1330 Carex exilis Dewey

1331 Carex tenella Schkuhr.
1332 sterilis Willd.
1333 leptalea Wahlenb.
1334 laxiflora Lam.
1335 arctata ~~Boott.~~ torta Boott KKM
1336 arctata Boott
1337 pennsylvanica Lam.
1338 granularis Muhl.
1339 incomperta Bicknell
1340 canescens L.
1341 communis Bailey
1342 laxiflora Lam.
1343 Juncus brevicaudatus
1344 Carex gracillima Schwein.
1345 ~~trisperma Dewey~~ brunnescens sphaerostachya (Desv.) Kük. ! Gross.
1346 plantaginea Lam.
1347 arctata Boott
1348 cephalophora Muhl.
1349 paupercula pallens Fernald
1350 debilis rudgei Bailey
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1388 Carex angustior Mackenzie Kikn
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No.	Name			Locality	Date
1391					
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1396	Carex novae-angliae Schw.	K.K.M.			
1397	" deflexa Hornem.	"			
1398					
1399					
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1419					
1420	Carex lasiocarpa Ehrh. (! A.J.H.)			Mud Pond, Mendon	7/2/17
1418a	Scirpus hudsonianus (Michx.) Fern. (det. Hermann) ~~Eriophorum alpinum~~		7/2/17	Hannibal	

1421
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1426 Carex prasina Dewey KKM
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1444 Juncus alpinus rariflorus Hartm. ! Hermann
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1448 Carex virescens Muhl. (! Hermann)
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1451					
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1470	Carex livida (Wahl.) Willd.	11Km			
1471				/	
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No.	Species	Symbol	Date	Locality	Marks
1481					1
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1498					
1499			~~[illegible]~~		
1500	Carex scirpoidea Mx.	ω	7/26	Avalanche Lake	1 1 1
1501	" leptalea Wahlenb.	σ	7/28	Averyville	1 1
1502	" pauciflora Lightf.	σ	"	"	
1503	" oligosperma Mx.	σ	7/26	Lake Tear	1 1 1
1504	" debilis rudgei Bailey	x	7/25	Mt. Marcy	
1505	" arctata Boott				
1506	" " "	γ	7/28	Indian Pass	
1507	" intumescens Rudge	v	7/31	Wood Farm	1
1509	" michauxiana Boeckl.	<	8/8	White Lake, Herkimer Co.	
1508	" lupuliformis Sartwell				
1510	" deweyana Schwein. ?	ω	8/2	Smugglers Notch, VT.	1

No.	Species		Date	Locality	Marks
1511	Carex vulpinoidea Mx.	∅	7/22	Antwerp, St. Lawrence Co., N.Y.	
1512	" areta Boott		7/25	Mt. Marcy, trail 3500 ft.	
1513	" stellulata Good.	o	7/27	Wood Farm	
1514	" "				
1515	" ~~communis Wheeler~~ pedicellata (Dew.) Britton ! Grow	α	7/30	Heart Lake road	1
1516	" scirpoides Schkuhr.				
1517	" stellulata excelsior (Bailey) Fernald	β	7/27	Wood Farm	
1518	" " angustata Carey	x	8/3	Mt. Mansfield	
1519	" "				1.
1520	" rigida bigelovii (Torr.) Tuckerm.	x	7/26	Mt. Marcy	1 1 1
1521	" vesicaria monile (Tuckerm.) Fern.	α	7/30	Heart Lake Road	1.
1522	" " L " Det. Grow "		7/28	Averyville	
1523	" "	β	8/3	Claremont, N.H.	
1524	" rostrata Stokes				1.
1525	" lurida Wahlenb.				
1526	" " "		7/30	Heart Lake	
1527	" " gracilis (Boott) Bailey ! Grow	α	7/30	Heart Lake road	
1528	" hystericina Muhl.				
1529	" rostrata utriculata (Boott) Bailey	∅	7/28	Wood Farm	
1530	" " "				
1531	" crinita Lam.	∅	7/22	Antwerp.	
1532	" " gynandra (Schwein.) Schwein. & Torr.	α.	7/25	Marcy Brook trail, 3500 ft.	1.
1533	" " " " " "	<	8/8	Alder Creek, Herkimer Co.	
1534	" lanuginosa Mx.	γ	7/23	East Ausable trail Keene Valley	
1535	" filiformis L.	κ	8/8	Williamstown, VT.	1 1.
1536	" stricta Lam.	∅	7/28	Averyville	
1537	" " "	⊼	8/8	Alder Lake	
1538	" " decora Bailey	∅	7/28	Wood Farm, No. Elba	
1539	" rigida bigelovii (Torr.) Tuckerm.	x	8/3	Mt. Mansfield, VT	1.
1540	" flava L.	κ	8/3	Williamstown, VT.	

No.	Species		Sym.	Date	Locality			5	10	15
1541	Carex lenticularis Mx.	KKM	~~⅞~~	7/29	Round Lake, No. Elba		1			
1542	" paupercula irrigua (Wahl.) Fernald		Φ	7/26	Lake Tear		1	1.		1.
1543	" pallescens L.		o	7/30	Heart Lake		1			
1544	" " L.				Wood Farm					
1545	" scabrata Schwein.			7/30	Indian Pass	1	1			
1546	" crinita simulans Fernald			8/3	Mt. Mansfield, VT.					
1547	" ~~umbellata Schkr.~~ ~~deflexa Hornem.~~	KKM	x	8/3	Mt Mansfield, VT.					
1548	"									
1549	" trisperma Dewey		x	7/26	Mt. Marcy					
1550	" " "		x	8/3	Mt. Mansfield					
1551	"		Φ		Lake Tear					
1552	" canescens L.		Φ	7/26	" "					
1553	" " "		cl	7/25	~~Mt.~~ Marcy Brook trail 3500 ft.				1.	1.
1554	" brunnescens (Pers.) Poir. ! Herm.		cl	"	" " " "			1.		
1555	" " "		cl	"	" " " "					
1556	" stellulata sterilis (Willd.) Carey ! Gron		x	7/26	Mt. Marcy		1			
1557	" " ~~angusta Fernald~~			7/23	Wood ~~Farm~~			"		
1558	" " subloliacea Laestad.		Φ	7/26	Lake Tear					
1559	" " " "		x	8/3	Mt. Mansfield				1	
1560	" " " "		x	"	" "					
1561	" " " "		x	"	" "			1.		
1562	" brunnescens Poir.		x	"	" "			1.		
1563	" "		γ	7/23	West Ausable trail Keene Valley					
1564	" "		β	"	Wood Farm					
1565	" "		β	"	" "					
1566	" "		x	7/26	Mt. Marcy			1.		
1567	" "		γ	7/23	Keene Valley		1			
1568	" "		.		"a"					
1569	" communis Bailey gracilior		γ	7/28	Avalanche Lake		1			
1570	" ~~tenella Schkuhr~~ disperma Dewey ! Herm.		σ	7/28	Averyville					

No.	Species		Date	Locality	A	B	C
1571	Carex novae-angliae Schwein.	β	7/29	Wood Farm			
1572	" crawfordii Fernald						
1573	" scoparia Schkuhr.	ς	8/8	White Lake, Herkimer Co.	1.		
1574	" " "	ς	8/3	Claremont N.H.			
1575	" " "	κ	7/29	Wood Farm		1	
1576	" tribuloides reducta Bailey	o	"	"			
1577	" " " "	α	7/30	North Elba	1.		
1578	" projecta Mack. ! Herman	ω	8/2	Smugglers Notch, VT.	1.		
1579	" " " ? "	ω	"	" "			
1580	Cladium mariscoides (Muhl.) Torr.	ρ	8/9	Junius, Seneca Co.			
1581	Cyperus aristatus Rottb.	ψ	8/8	Sylvan Beach, Oneida Lake		1	
1582	" filiculmis Vahl.	ψ	"	" " "			
1583	" " macilentus Fernald	β	8/3	Claremont, N.H.			
1584	Eleocharis tenuis (Willd.) Schultes	o	"	" "	1.		
1585	" palustris (L.) R. & S.	ø	7/29	Round Lake, No. Elba	1.		
1586	" palustris glaucescens (Willd.) Gray	κ	8/3	Williamstown, VT.	1.		1.
1587	" calva (Torr.) Gray	Det Sv.					
1589	" diandra C. Wright	ψ	8/8	Sylvan Beach		1	
1590	Rynchospora fusca (L.) Ait. f.	ς	8/8	White Lake	1.		
1591	" alba (L.) Vahl	ς	"	" "		1	
1593	Scirpus atrovirens Muhl.	α	8/2	Smugglers Notch, VT.			
1592	" "	α	7/29	Wood Farm	1.		
1594	" smithii Gray	ψ	8/8	Sylvan Beach		1	
1588	Eleocharis ovata (Roth) R. & S. ?	ø	7/21	Antwerp, St. Lawrence Co.			
1595	Scirpus caespitosus L.	x	7/26	Mt. Marcy		1	
1596						1	
1597	Scirpus pauciflorus Lightf.			"Σ"			
1598							
1599	Scirpus eriophorum Mx.			Claremont N.H.	1.		
1600	Glyceria torreyana (Spreng.) Hitchc.	ѿ	7/28	Smugglers Notch, Vt.			
1599a	Eriophorum ~~callitrix Cham.~~ spissum Fern.	x	8/3	Mt. Mansfield	1.		

			1917		5	10		15
1601	Glyceria ~~torreyana (Spreng.)~~ melicaria (Michx) Hitchc.	γ	7/28	Averyville swamp, Essex Co.		1.	1.	1.
1602	" nervata (Willd.) Trin.	ω	8/2	Smugglers Notch, VT.				1
1603	~~Avena striata~~ Melica purpurascens (Torr.) Hitchc.	γ	7/26	Colden-Avalanche trail, N.Y.		1.		1.
1604	Agrostis borealis Hartm.	ω	8/2	Smuggler's Notch, VT.		1.		1.
1605	Trisetum spicatum (L.) Richter	ω	"	"		1.	1.	1.
1606	Hierochloe alpina (Sw.) R. & S.	x	7/26	Mt. Marcy 5300 ft.			1.	1.
1607	Eragrostis pilosa (L.) Beauv.	β	8/3	Claremont, N.H.			1.	
1608	Agrostis hiemalis (Walt.) B.S.P.	β	"	"				1.
1609	Poa laxa Haenke	x	7/26	Mt. Marcy 5300 ft.		1.		1.
1610	Festuca ovina L.	ω	8/2	Smugglers Notch, VT.				
1611	Glyceria borealis (Nash) Batchelder	o	7/24	2 mi. East of Wood Farm, N. Elba				
1612	Deschampsia flexuosa (L.) Trin.	ϰ	8/3	Mt. Mansfield, VT				1.
1613	Panicum linearifolium silvicola Hitchc. & Chase	<	8/8	Sylvan Beach, Oneida Co.				
1614	Sporobolus uniflorus (Muhl.) Scribn. & Merr.	<	"	White Lake, Herkimer Co.		1.		
1615	Calamagrostis cinnoides (Muhl.) Barton	ω		Smugglers Notch, VT.				
1616	Panicum boreale Nash	ω	7/23	Beaver Meadow Falls, Keene Valley				
1617	" "	γ	"	Cascade Road near "				
1618		γ	"	W. Ausable trail, "				
1619	" "	o	7/24	Wood Farm, N. Elba				
1620	"	✱	7/26	Avalanche Pass, Essex Co.				
1621	Eragrostis pectinacea (Michx.) Steud.	β	8/3	Claremont, N.H.				
1622	Panicum implicatum Scribn.	β	"	"				
1623	" meridionale Ashe	γ	8/7	Cohasset, 4th Lake, Herkimer Co.				
1624	" linearifoliae Ashe	ρ	8/9	Junius, Seneca Co.				
1625		o	7/3	Round Pond, Mainton, Monroe Co.				
1626	Calamagrostis canadensis (Michx.) Beauv.	–	7/25	Marcy Brook trail, 3500 m.				
1627	Agrostis hiemalis (Walt.) BSP.	β	7/28	Wood Farm, No. Elba				
1628	Bromus ciliatus L.	α	7/23	Keene Valley				
1629	Glyceria canadensis (Michx.) Trin.	o	7/28	Wood Farm, No. Elba				
1630	~~Chaetochloa~~ Setaria viridis (L.) Beauv. !gds	α	8/7	4th Lake, Herkimer Co.				

					5	10	15
1631	Poa pratensis L.	α	7/21	Antwerp, St. Lawrence Co.			
1632	Deschampsia flexuosa (L.) Trin.	x	8/3	Mt. Mansfield, VT.	1		
1633	" " ?	x	"	"			
1634	Agropyron repens (L.) Beauv.	ω	8/2	Smugglers Notch, VT.			
1635	Calamagrostis	ω	"	"			
1636	Triticum spicatum (L.) Richt	ω	7/23	Beaver Meadow Falls, Keene Valley N.Y.	1		1.
1637	Poa cuspidata Nutt.			~~Meadows~~			1.
1638	Poa nemoralis L.	ω	8/2	Smugglers Notch, VT.			1.
1639	Agrostis borealis Hartm.	x	7/25	Mt. Marcy, N.Y.	1.	1.	1.
1640	" borealis Hartm.	x	~~7/25~~ 8/3	Mt. Mansfield, VT.		1	
1641	" hiemalis (Walt.) B.S.P. var. novaeangliae	γ	7/25	Marcy Brook trail, 3500 ft.			1.
1642	Calamagrostis canadensis (Mx.) Beauv.	γ	7/23	West Ausable trail, Keene Valley			
1643	" "	γ	7/26	Opalescent trail, Mt. Marcy			
1644	Danthonia spicata (L.) DC.	β	7/30	Wood Farm, No. Elba, N.Y.			1.
1645	Panicum huachucae silvicola H. & C.	Δ	8/8	Sylvan Beach, Oneida Lake N.Y.			1.
1646		ω	7/25	Mt. Marcy			1
1647							1
1648							1
1649	Aira flexuosa L.	x	7/25	Mt Marcy			1.
1650	Utricularia cornuta Mx.		8/8/17	White Lake			
1651	Lactuca spicata		7/26	So. Meadows			
1652	Habenaria psycodes albida Kielip		8/4	Claremont N.H.			
1653	Lilium philadelphicum L.		6/-/17	Bergen.			
1654	Arenaria verna propinqua		8/2	Smugglers notch			
1655	Convolvulus sepium L.		8/22	Bergen			
1656	Potentilla		7/24	Tonagea Camp, So. Meadows			
1657	Viola lanceolata		8/9/17	Mt. Pond			
1658	" selkirkii		7/26/16	Mt. Whiteface			
1659	" rostrata		5/30/17	Jenkins woods			
1660	"		5/15/15	Woodhaven L.I.			

Howmark on sheet

No.	Name	Date	Locality		5	10	15
1661	Eriophorum ~~Cham. callitrix Cham.~~ ~~spissum~~ Fern. α (R. Hermann)	7/28	Averyville			1. 1.	1.
1662	Scirpus eriophorum	7/30	Wood Farm			1.	
(1663	Rynchospora = 1590	8/8	White Lake	1)			
1664	Carex ~~rosea Schk~~ frumuscan (Pers.) Poir. ! Herm	8/3	Mansfield			1.	
1665	Moneses uniflora	7/26	Opalescent Trail				
1666	Lappula echinata Gilib.	8/1	Port Henry				
1667	Potamogeton	7/30	Hart Lake				
1668	Ribes	8/2	Smugglers Notch				
1669	~~Pyrus sambucifolia~~	8/3	Mt. Mansfield				
1670	Salix ~~rostrata~~ bebbiana	6/13/15	Egypt				
1671	" ~~humilis~~ "	5/15/15	Far Rockaway				
1672	" ~~amygdaloides~~ lucida	"	"				
1673	" candida Fl.	5/25/15	Bergen				
1674	" discolor	5/30/15	Gulick				
1675	" cordata	"	"				
1676	" alba	"	Braddocks Bay				
1677	" nigra	8/4/15	Montreal				
1678	" adenophylla	8/7/15	Lake St. John				
1679	" interior wheeleri	"	"				
1680	" fragilis	8/22/15	Irondequoit Bay				
1681	" cordata ?	5/10/17	"				
1682	" cordata	5/19/17	Coldwater				
1683	" petiolaris	7/3/17	Manitou				
1684							
1685							
1686	Juncus effusus L.		Heart Lake				
1687	" trifidus L.						
1688	" filiformis L.	8/3	Mt. Mansfield				
1689	"		"				
1690							
1691.	" filiformis L. ! Hermann		"				
1692	" trifidus L.		"				

No.	Name		1917	Locality	
1800	Festuca elatior L.	β	6/19	Along Fish River, Taberg, Oneida Co.	
1801	Panicum depauperatum Muhl.		6/22	Near Rome, Oneida Co.	1.
1802			7/3	Round Pond, Manitou, Monroe Co.	
1803	Glyceria grandis Wats.		6/23	2 mi. east of Clayville, Herkimer Co.	
1804	Panicum boreale Nash	β	7/1	Junius, Seneca Co.	
1805	" tennesseense Ashe	γ	6/27	Cohasset, 4th Lake, Herkimer Co.	
1806	Sorghastrum nutans (L.) Nash	γ	7/4	Bergen Swamp, Genesee Co.	
1807	Oryzopsis asperifolia Mx.	γ	7/4	"	
1808	Leersia oryzoides (L.) Sw.		6/24	Jordanville, Herkimer Co.	
1809	Melica striata (Michx.) Hitchc.		6/23	Cedar Lake, "	
1810	Poa compressa L.		6/24	Jordanville, "	
1811	Alopecurus aequalis Sobol (! MRB)	v	6/23	Clayville, "	
1812	Bromus ciliatus L.	χ	6/26	Black Bear Mt, Hamilton Co.	
1813	Hystrix patula Moench.	γ	7/1	Jamesville, Onondaga Co.	
1814	Ammophila arenaria (L.) Link		7/3	Long Pond, Manitou, Monroe Co.	
1815	Poa triflora Gilib.		"	"	
1816	" compressa L.		"	"	
1817	"	μ	6/22	Fish River, Taberg, Oneida Co.	
1818	~~Agrostis hiemalis~~ Poa cuspidata Nutt.	μ	"	" " "	1.
1819		μ	"	" " "	
1820	Agrostis hiemalis	ω	6/26	Black Bear, Hamilton Co.	
1821	Glyceria nervata	v	7/1	Lily Marsh, Oswego Co.	1.
1822	Festuca elatior L.	φ	"	" " " "	1.
1823	Agrostis perennans	β	7/2	Mud Pond, Mendon, Monroe Co.	1.
1824	~~Festuca~~ Poa compressa	ψ	7/3	Long Pond, Manitou, " "	1.
1825	"	ψ	"	Braddocks Bay, " "	1.
1826	Listera cordata (L.) R. Br.		7/4	Bergen Swamp	
1827	Ribes		6/17	Clayville	
1828	"		5/14/16	Iolah	
1829					
1830					
1831	Salix purpurea		5/19/17	Coldwater	

1831	Viola	5/15/15	Lawrence, L. I.
1832	Viola selkirkii	7/20/16	Indian Pass
1833	Silene noctiflora	6/23/13	Sullivan
1834	Linaria minor Desf.	6/-11	North Bergen
1835	Gerardia paupercula Britton	8/-11	Bushnell's Basin
1836	" pedicularia L.	"	Turk Hill
1837	Pentstemon gracilis Nutt.	7/11/13	Muskoka, Ont.
1838	Gerardia tenuifolia Vahl.	8/21/13	Bushnell's Basin
1839	Pentstemon laevigatus Ait.	6/28/14	North Bergen
1840	Gerardia flava L.	7/19/14	Sullivans
1841	Verbascum phlomoides L.	8/1/16	St. Huberts, Keene Valley
1842	Pentstemon hirsutus Willd.	6/28/15	Simpsons woods
1843			
1844	Veronica tournefortii C.C. Gmel.	4/14/15	Railroad Mills, N.Y.
1845	Aster laevis	9/-06	Pittsford
1846	Lonicera		Mud Pond, Zurich
1847	Comandra umbellata		Mendon
1848	Silene latifolia	8/16	Cobbs Hill, Rochester
1849	Ribes		Golah
1850	Parnassia caroliniana		Bergen
1851	Saxifraga pennsylvanica		Coldwater, Monroe Co.
1852	Mitella diphylla		Shaker woods
1853	Vicia		Portage
1854	Uvularia grandiflora		Duck Lake
1855	Luzula		Shaker woods.
1856	Cypripedium acaule		Mud Pond, Zurich
1857	Lycopodium obscurum L.		Duck Lake Seneca, Co.
1858	" complanatum flabelliforme Fernald.		" "
1859	Taxus		Bergen
1860	Lycopodium		Shaker woods
1861	Salix ~~rostrata~~ bebbiana	5/29/16	Mendon
1858a.	Lycopodium tristachyum Pursh	8+16	Duck Lake, Seneca Co.

No.	Name		1918	Locality			
2000	Vaccinium	v	6/25	Warren Swamp, Herkimer Co.			1
2001	Sanicula	γ	6/24	Jordansville, "			1
2002	Aquilegia vulgaris L.	β	"	" "			
2003	L.						
2004	Habenaria hyperborea (L.) R. Br.						
2005	Arisaema stewardsonii	v	6/23	4 mi. east of Clayville			
2006	Polemonium van bruntiae Britton	v	6/25	Warren swamp, Herkimer Co.	1 1		1
2007	Botrychium matricariaefolium A. Br.	x	6/26	Black Bear Mt, Hamilton Co. N.Y.			1
2008	Streptopus amplexicaulis (L.) DC.						
2009	Senecio robbinsii Oakes						
2010	Viburnum cassinoides L.	v	6/25	Warren swamp, Herkimer Co.			
2011	Stellaria borealis Bigel.	x		" " "			
2012	Ribes prostratum	x					
2013	Dryopteris boottii?	γ	6/27	Huner Pond, 4th Lake, " "			
2014	Chiogenes hispidula (L.) T. & G.						
2015	Viola selkirkii Pursh	ω	6/22	Fish River, near Taberg, Oneida Co. N.Y.			
2016	Primula mistassinica Michx.	ω	6/22	"	1	1	1
2017	Saxifraga aizoides L.	ω	6/22	Fish River, near Taberg, Oneida Co.		1	1
2018	Cypripedium arietinum	σ	6/24	Jordansville, Herkimer Co., N.Y.			
2019	Lychnis flos-cuculi L.	β	6/22	Road between Oneida & Rome, N.Y.	1		1
2020	Galium						
2021	Rubus	Δ	7/3	Round Pond, Lake Ontario, Monroe Co.			1
2022	Rubus	Δ	"	"			1
2023	Pentstemon digitalis Sweet						
2024	Veronica latifolia L. J.W.P.	α	7/1	Near Oswego, N.Y.	1	1	1
2025	Knautia arvensis (L.) J. Coult.	δ	6/24	Near Jordansville, Herkimer Co.	1		1
2026	Callitriche palustris L.	o	6/23	2 mi. east of Clayville	1		
2027	Dryopteris cristata x intermedia = D. boottii (Tuckerm.) Underw.	γ	6/26	At Head of 4th Lake			
2028	Arrhenatherum elatius (L.) Beauv.	α	7/21	Mendon, Monroe Co., N.Y.			
2029	Listera australis Lindl.	Φ	7/1	Lily Marsh, Oswego Co.			
2030	Kalmia polifolia Wang.	Φ	7/1	Lily Marsh, Oswego Co.			1
~~2031~~							

No.	Name		1917	Locality	5	10		15
2031	Cathyrus palustris L.							
2032	Lithospermum arvense L.	β	7/1	Blue Lake, Jamesville				
2033	Senecio balsamitae Muhl.		7/4	Bergen				
2034	Coralorrhiza trifida Chatelain	γ	6/23	State Swamp, near Cedar Lake, Herkimer Co.				1
2035	Habenaria dilatata (Pursh) Gray	Φ	"	"			1	1
2036	Camptosaurus rhizophyllus (L.) Link	ω	7/1	Blue Lake, Jamesville, N.Y.		1		
2037	Scolopendrium vulgare Sm.	ω	7/1	"		1		1
2038	Asplenium trichomanoides L.	ω	7/1	"		1		1
2039								
2040	Myosotis scorpioides L.	o	6/23 = 6/23	Fish River, Taberg, N.Y.				
2041	Pogonia verticillata	γ	7/2	Near Lilly Marsh, Oswego Co. "				
2042	Clintonia borealis L.	γ	6/23	4 mi. E. of Clayville, Herkimer Co.				
2043	Equisetum	v	6/24	Jordanville, " "				1
2044	Calopogon pulchellum	Φ	7/1	Lily Marsh, Oswego Co, N.Y.				
2045	Lycopodium inundatum L.	Φ	9/1	"				1
2046	Triglochin maritima	Φ	7/2	Hannibal swamp, " " "				
2047	Sisyrinchium	o	7/3	Round Pond, Lake Ont., Monroe Co.				1
2048	Potentilla paradoxa Nutt.	Ψ	"	Manitou, " " " "			1	1
2049	Sisyrinchium	o	7/5	Near Pittsford, " "				1
2050	Triglochin maritima L.	ρ	7/4	Bergen, Genesee Co., N.Y.				1
2051	Potentilla recta	α	7/1	Mexico, Oswego Co., N.Y.		1		
2052	Antennaria palinii	β	6/22	Along Fish River, Taberg, N.Y.				
2053	Vaccinium	Δ	"	2 mi. S. of Taberg				
2054	Betula populnea	α	"	Near Rome				
2055	Viola		6/23	2 mi. E. of Clayville				
2056	Habenaria dilatata	σ	"	4 " "				
2057	[illegible]		"	" "				
2058	Veronica serpyllifolia		"	State Swamp, Cedar Lake				
2059	Pyrola rotundifolia		6/24	Jordansville				
2060	Vaccinium stamineum		"	"				

			1917		
2061	Uvularia	γ	6/26	Black Bear Mt. 4th Lake	
2062	~~Ribes~~	x	"	"	
2063	Viola renifolia ?	✗	"	"	
2064	Dryopteris marginalis	↔	"	Trail up "	
2065	Oxalis acetosella	γ	6/27	near Camp Dalton, "	
2066	Cornus circinatus	γ	7/1	Blue Lake, Jamesville	
2067	Kalmia polifolia	Φ	"	Lily Marsh, Oswego	
2068	~~Potentilla palustris~~ [illegible]		7/2	Mud Pond, near Zurich	
2069	Cornus circinatus		7/3	Round Pond, Manitou	
2070	Erysimum cheiranthoides		"	Manitou Beach	
2071	Cystopteris bulbifera	γ	7/4	Bergen Swamp	
2072	Viola renifolia	σ	"	" "	
2073	Lonicera	γ	7/5	Palmers Glen	
2074	Listera australis	Φ	7/2	Mud Pond, near Zurick	
2075	Drosera rotundifolia	Φ	7/1	Lily Marsh, Oswego	
2076	Asplenium ebeneum		6/30	near Oneida	
2077	Arethusa bulbosa	Φ	7/2	Mud Pond, Zurich	
2078	Pogonia ophioglossoides	Φ	"	" "	
2079	Triglochin maritima	Φ	6/23	State Swamp, Cedar Lake	
2080	Eriophorum virginicum	Φ	"	" "	
2081	Aralia hispida			Mendon, N.Y.	
2082	Rubus		6/22	Rome (sandhills)	
2083	"		7/5	Palmers Glen	1
2084	Lychnis		7/1/17	Lily Marsh	
2085	Sisyrinchium		6/22/17	Fish River Taberg	
2086	Utricularia minor		7/2/17	Mendon	
2087	" intermedia		"	Hannibal	
2088	Scrophularia leporella		6/22	Fish River "	
2089	Ribes triste		7/15	Bald Mt.	
2090	Lathyrus maritimus (L.) Bigel.		7/3	Manitou	

No.	Name		1917	Locality				
2091	Senecio vulgaris L.		7/8	Portage, Wyoming Co.				
2092			7/2	Penfield				
2093	Veronica							
2094	Aletris farinosa		7/16	Cold Spring, N. J.		1.		
2095	Carex folliculata	γ	7/19	Hammonton, N. J.				
2096	Carex trisperma	φ	″	″				
2097	Carex bullata Schk.		″	″				
2098	Cyperus		″	″				
2099	Cyperus fi ~~lis~~ iculmis	Δ	″	″			1	
2100	Aplectrum hiemale	γ	~~7/2~~ 5/15	Sonyea, N.Y.		1		
2101	Hieracium venosum L.	μ	7/2	Mendon, Monroe Co., N.Y.				
2102	Antennaria fallax Greene	μ	8/15	Shaker woods, Sonyea, N.Y.				1
2103	Utricularia minor L. ~~intermedia Hayne~~	φ	7/2	Mendon, Monroe Co. ″		1		
2104	Myosotis scirpoidea L.	..		Penfield, ″				
2105	Ranunculus delphinifolius Torr.	ν	6/25	Golah, Livingston Co., ″				
2106	Thalictrum dioicum L.	γ		Seneca Park, Monroe Co.				
2107	Coptis trifolia	γ		Mud Pond, Wayne Co.				
2108	Ranunculus aquatilis L.	#	5/25	Allens Creek, near Pittsford, ″		1	1	1
2109	Alyssum alyssoides L.	T	5/20 J.S.B.	East Rochester, N.Y.				1
2110	Chrysosplenium		5/15	Sonyea, Wyoming Co., ″				
2111	Crataegus	β		Golah, N.Y.				
2112	Amelanchier humilis Wieg.	γ	7/5	Mendon, Monroe Co. ″				1
2113	Polygala paucifolia Willd.	γ	5/15	Shaker woods, Sonyea, N.Y.				
2114	Floerkea proserpinacoides Willd.	γ	″	″		1	1	1
2115	Viola triloba Schwein.	μ	7/2	Mendon, Monroe Co., ″				
2116	Chaerophyllum procumbens	δ		Golah, N.Y.				
2117	Arethusa bulbosa L.	φ	6/20	Mud Pond, near Junick, ″		1	1	
2118	Pogonia verticillata (Willd.) Nutt.	γ	″	″			1	
2119	Botrychium	γ	6/14	Holcomb, Wyoming Co. ″				
2120	″	γ	″	″				
2120a	Rubus		″	″	1			

No.	Name		Date	Locality	5 10 15
2122a	Equisetum fluviatile			Mud Pond, Zurich.	
2121	Botrychium	γ	6/26	Holcomb, Wyoming Co., N.Y.	
2122	Pogonia ophioglossoides (L.) Ker	ϕ	6/20	Mud Pond, Zurich, Wayne Co.	1
2123		ρ	6/18	Seneca Park Rochester.	1
2124a	Triglochin palustris L.	ρ	6/15	~~Bergen~~, Genesee Co., N.Y. ~~Triglochin~~	1 1
2125	Carex plantaginea Lam.	γ	5/25	Jenkins woods, Pittsford	
2126	Galium lanceolatum Torr.				
2127	Equisetum hyemale L. var.	γ		Sullivans, Ontario Co., "	
2128	Rubus		6/15	Bergen	
2129	Phlox subulata L.	ω		Lime Rock, Genesee Co., "	
2130	Lobelia kalmii L.	o		Sullivans, Ontario " "	
2131	Solidago houghtonii T. & G.	ρ	8/22	Bergen, Genesee Co. "	1
2132	Tofieldia glutinosa (Michx.) Pers.	ρ	"	"	1 1
2133	Asimina triloba Dunal	β	7/4	East Lake Rd, near Adams Basin	
2134	Zygadenus chloranthus Richards.	o	8/22	Sullivans, Ontario Co. N.Y.	
2135	Nelumbo lutea (Willd.) Pers.	⊙	8/25	Sodus Bay, Wayne " "	1
2136	Carex	ρ	8/22	Bergen, Genesee Co., "	1
2137	Scirpus occidentalis (Wats.) Chase	ρ	"	"	
2138	Carex crawei Dewey	ϕ	"	"	
2139	Oryzopsis asperifolia Mx.	ρ	"	"	
2140	Scleria verticillata Muhl.	ρ	"	"	
2141	Muhlenbergia foliosa Trin.	μ	7/8	Portage, Wyoming Co. N.Y.	1
2142	Cenchrus carolinianus Walt.	T		East Rochester, Monroe Co.	
2143	Elymus	μ	8/19	Portage, Wyoming Co. "	
2144	Eragrostis ~~megastachya~~ (ciliarensis (All.) Link) (Koeler) Link	T	6/19	East Rochester, Monroe Co.	1
2145	" pectinacea (Mx.) Nees ~~pilosa (L.) Beauv.~~ (! Chase)	T	"	"	1
2146	Rynchospora capillacea Torr.	ρ	7/4	Bergen, Genesee Co.	
2147	Glyceria nervata (Willd.) Trin.	ϕ	7/5	Mud Pond, Mendon, Monroe Co.	
2148		o	7/3	Golah, Livingston Co.	
2149	Melica striata (Michx.) Hitchc.	γ	7/4	Bergen, Genesee Co.	1 1
2150	Deschampsia flexuosa (L.) Trin.	γ	"	"	1
2124.	Equisetum scirpoides	Δ	6/12	Seneca Park, Monroe Co.	1

No.	Name		1917		Locality	10		15
2151	Phalaris arundinacea L.	ψ	7/3		Round Pond, Manitou, Monroe Co. N.Y.	1 ‡		
2152	Panicum lindheimeri Nash.	o	7/4		Bergen, Genesee Co., N.Y.	‡		
2153	" sphaerocarpon Ell.	β	7/11	D.S.B.	Pittsford, N.Y.			
2154	" lindheimeri Nash	γ	8/19		Portage, Wyoming Co., N.Y.			
2155	" tennesseense Ashe ! Cham	o	7/3		Long Pond, Manitou, N.Y.			
2156	Triglochin maritima L.	ρ	8/22		Bergen Swamp, Genesee Co.,	1		
2157	Phlox divaricata L.	γ	5/15		Longyea, Wyoming Co., N.Y.	1		
2158	Erythronium albidum Nutt.	δ	5/8		Zolah, Livingston Co., N.Y.			1
2159	Trillium undulatum Willd.	γ	5/1		Duck Lake, Seneca Co., N.Y.	1		
2160	Menyanthes trifoliata L.	Φ	~~[illegible]~~ 6/17		Mud Pond, Mendon, N.Y.	1		1
2161	Viola arvensis Murr.	β	7/10		"	1		1
2162	Hybanthus concolor (Forster) Spreng.	γ	5/30		Powder Mills, Monroe Co., N.Y.	1		1
2163	Polymnia canadensis L.	γ	6/15		Bergen Swamp, Genesee Co., "	1		
2164	Jeffersonia diphylla (L.) Pers.	P	4/24		Fishers, Ontario Co., N.Y.			
2165	Zonlicera	Δ	5/31		Duck Lake, Seneca Co., "			1
2166	Viola papilionacea	P	5/8		Zolah, Livingston Co.,			1
2167	Ranunculus septentrionalis	Δ	"		"			1
2168	Viola rotundifolia Mx.	γ	5/10		Palmer Glen, Monroe Co.			1
2169	"	Δ	5/12		Coldwater, " "			1
2170	" striata Ait.	Δ	5/30		Powder Mills, " "	1		
2171	Vaccinium atrococcum (Gray) Heller	μ	"		Lily Pond, Bushnell Basin " "	1		1
2172	Ranunculus	β	"		Powder Mills, " "			
2173	Viola blanda Willd. NON	γ	6/15		Bergen, Genesee Co, " "			1
2174	Salix ~~myrtilloides~~ pedicellaris Pursh	Φ	6/17		Mendon, Monroe Co. " "			1
2175	Scheuchzeria palustris L.	Φ	"		"		1	
2176	Habenaria psycodes	o	"		Barnet Farm, Pittsford, N.Y.			1
2177	Spiranthes	o	"		"			1
2178	Galeopsis ladanum L.	δ	7/1	W. Boughton	Near Pittsford, N.Y.	1		1
2179	Solidago ohioensis	σ	8/12		Sullivans, Ontario Co., N.Y.	1		
2180	Viburnum alnifolium				Duck Lake, Seneca Co.			

No.	Name		Date	Locality	5	10	15
2181	Hydrophyllum	γ	6/18/17	Portage, N.Y.			
2182	Lithospermum			Golah, N.Y.		1	
2183	Mertensia virginica (L.) Link			Sullivan, Ontario Co.			
2184	Chamaedaphne calyculata			Featherbed Bog, Seneca Co.			
2185	" "			"			
2186	Rhododendron roseum			Mud Pond, Zurich			
2187	Vaccinium canadensis			Bergen			
2188	" atrococcum			Lily Pond, Bushnell Basin			
2189	Artemisia		8/16	Cobbs Hill, Rochester			
2190	Hypericum canadense						
2191	Viola pallens			~~Genyamah,~~ Seneca Co. ~~Shaker woods~~			
2192	" blanda			" "			
2193	" pallens			Shaker woods Sonyea			
2194	" conspersa			" " "			
2195	" papilionacea			Golah			
2196	" sororia			Shaker woods, "			
2197	Osmunda clintoniana L.			Powder Mills		1	
2198	Asplenium trichomanoides			The Gulf			
2199	Camptosorus rhizophyllus			" "			
2200	Carex pedunculata Muhl.	γ	5/13/19	Jenkins woods, Pittsford, N.Y.			
2201	Arabis hirsuta (L.) Scop.	ω	5/20/19	Lime Rock, Genesee Co., "			
2202	" laevigata (Muhl.) Poir.	ω	"	"			
2203	Cardamine douglasii (Torr.) Britton	ω	"	"			
2204	Ranunculus allegheniensis Britton	ω	"	"			
2205	Myosotis micrantha Pallas	♡	5/23/19	Glenmont, Albany Co., "		1	1
2206	Bromus sterilis L.	δ	"	"			
2207	Sisyrinchium atlanticum Bicknell	♡	"	"			
2208	Vaccinium vacillans Kalm	♡	"	"			1
2209	Woodsia ilvensis (L.) R. Br.	♡	"	"			
2210	Viola subvillosa	♡	"	"			

No.	Name			Date	Locality					
2211	Carex granularis Muhl.		♡	5/23/19	Glenmont, Albany Co., N.Y.					
2212	"		♡	"	"					
2213	Panicum ashei Pers.	ac	α	5/25/19	Woodbury, N.J.					1
2214	Unalis?		α	"						
2215	Carex pennsylvanica Lam.		α	"					1	
2216	Panicum scribnerianum Nash.	ac	α	"						1
2217	" depauperatum Muhl.	ac	α	"						1
2218			α	"						
2219	Oenothera [laciniata]		x	"						
2220	~~Pentstemon~~ Salvia lyrata		α	"		1		1		
2221	~~Lyonia~~ Eubotrys racemosa (L.) Nutt.		Δ	"				1		
2222	~~Luzula~~ campestris (L.) DC.		Δ	"				1		
2223	Sisyrinchium gramineum Curtis		○	"						
2224	Glyceria grandis Wats.		○	"						
2225	Carex [hystricina]		○	"						
2226	Festuca ~~octi~~flora Walt.		T	"						
2227	Eleocharis		○	"						
2228	Viola primulifolia L.		○	"						
2229	" lanceolata L.		○	"						
2230	Plantago virginica L.		β	"						
2231			β	"						
2232	Geranium carolinianum L.		β	"			1			
2233	Antennaria plantaginifolia	KOH	β	"						
2234	Carex		Δ	5/30/19	Hammonton, N.J.					
2235	Smilacina racemosa (L.) Desf.		i	"						
2236	Castalia minor		⊡	"						
2237	Xerophyllum asphodeloides (L.) Nutt.		ι	"						
2238	Carex swanii (Fernald)		φ	"			1		1	
2239	Stipa avenacea L.		ι	"			1			
2240	Panicum depauperatum Muhl.		α	"			1	1		
2227a	" addisonii Nash		○	5/25/19	Woodbury, N.J.		1			
2232a	Carex virescens swanii		α	"	"		1			

No.	Name	Sign	Date	Locality	5	10	15
2241	Vaccinium stamineum	△	5/30/19	Hammonton, N.J.			1
2242	Ilex laevigata (Pursh) Gray	△				1	1
2243	Rhododendron maximum L.	△					
2244	Leucothoë racemosa (L.) Gray	△					
2245	Carex howei	△			1		
2246	Orontium aquaticum L.	⊡					
2247	Vaccinium vacillans Kalm	●					1
2248	Crataegus	△					
2249	Smilax laurifolia L.	△				1	
2250	Carex walteriana	φ			1	1	
2251	"	φ					1
2252	Eriocaulon compressum Lam.	φ				1	
2253	Poa compressa L.	α			1		
2254	Xyris caroliniana Walt.	<					
2255	Robinia hispida L.	β					
2256	~~Plantago~~ Antennaria	α					
2257	Rubus	△					
2258	Smilax glauca Walt.	△					
2259	Utricularia fibrosa Walt.	<					1
2260	Pteris	ι					1
2261	Carex exilis Dewey	φ			1		
2262	Crataegus	△					1
2263	Vitis aestivalis Michx.	α			1		1
2264	"	α				1	1
2264a	Arethusa bulbosa L.	φ					
2265	Panicum scabriusculum Ell.	δ	5/31/19	Gloucester, N.J.	1	1	
2267	Mollugo verticillata L.	ι	7/18/17	Hammonton, N.J.			
2268	Eriocaulon compressum Lam.	φ	"				
2269	Mikania scandens (L.) Willd.	△	"				
2270	Drosera filiformis Raf.	i	"				1
[illegible]	Hieracium		"	"			

2271	Pyxidanthera barbulata Michx.	i	7/18/17		Hammonton, N.J.			
2272	Polygala brevifolia Nutt.	i	"					
2273	Tephrosia virginica (L.) Pers.	Δ	"					
2274	Hudsonia ericoides L.	i	"					
2275	Euphorbia ipecacuanhae L.	i	"					
2276	Xerophyllum asphodeloides (L.) Nutt.	Δ	"					
2277	Abama americana	φi	7/10/17		Atsion, N.J.		1	
2278	Rhododendron viscosa		7/18/17		Hammonton, N.J.			
2279	Polygala lutea		"		"			
2280	Plantago aristata		"		"			
2281	Proserpinaca pectinata		"			1		
2282	Lophiola aurea Ker		"		Atsion, N.J.	1		
2283	Corema conradi Torr.		"	G.W.B.	Woodmansie, N.J.	1		
2284	Polygala nuttallii		"		Hammonton N.J.			
2285	Xyris congdoni		"		"		1	
2286	Scirpus subterminalis Torr.		"		"	1	1	
2287	Eriocaulon septangulare		"		"			
2288	Scleria triglomerata		"		"			
2289	Glyceria obtusa		"		"			
2290	Sericocarpus asteroides		"		"			
2291	Agrimonia		"		"			
2292	Utricularia fibrosa Walt		"		"	1		
2293	Quercus ilicifolia		"		"			
2294	Krigia virginica		"		"			
2295	Aster dumosus		"		"			
2296	Polygala brevifolia		"		"			
2297	Rynchospora glomerata (L.) Vahl		"		"	1.		
2298	Juncus		"		"		1.	1.
2299	Pyxidanthera barbulata		"		"	1.		
2299a	Rynchospora		"		"			1.

No.	Name	July 1917	Locality
2300	Carex harperi Fernald	16	Cold Spring, Cape May Co., N.J.
2301	Sphenopholis obtusata (Michx.) Scribn.	16	"
2302	Puccinellia distans	16	Cape May, N.J.
2303			
2304	Puccinellia fasciculata	16	Cape May, N.J.
2305	Festuca myurus L. ♀	16	"
2306	Panicum ~~meridionale Ashe~~ albemarlense Ashe	16	"
2307	Panicum ~~meridionale Ashe~~ "	15	West Cape May, N.J.
2308	Poa nemoralis L.	15	"
2309	Sphenopholis palustris (Michx.) Scribn.	16	Cold Spring, N.J.
2310	Panicum pseudopubescens	16	"
2311	Thalictrum revolutum	16	"
2312	Panicum tangletonum Nash	16	Bennett, Cape May Co., N.J.
2313	" oricola Hitchc. & Chase	15	Cape May, N.J.
2314	" spretum Schultes	16	Bennett, N.J.
2315	Carex rudgei	16	"
2316	" alata Torr.	15	Cape May, N.J.
2317	" cephalantha (sterilis)	15	West Cape May, N.J.
2318	" granularis haleana (Olney) Porter	16	Cold Spring, N.J.
2319	" hormathodes Fernald	16	Bennett, N.J.
2320	" ptychocarpa Steud.	16	Cold Spring, N.J.
2321	" vestita Willd.	16	"
2322	Senecio tomentosus Michx.	15	West Cape May, N.J.
2323	Scleria reticularis pubescens Britton	16	Cold Spring, N.J.
2325	Carex varia Muhl.	16	"
2326	bullata Schkuhr.	16	"
2327	littoralis Schwein	16	"
2328	laevivaginata	16	"
2329	laxiflora styloflexa (Buckley) Boott	15	Cape May, N.J.
2330	muricata L.	15	"
2331	stricta angustata (Boott) Bailey	16	Cold Spring, N.J.
2324	Fimbristylis castanea puberula (Michx.) Britton	15	Cape May, N.J.
2307a	Panicum albemarlense Ashe		

No.	Name		July 1917	Locality
2332	Agrostis hiemalis (Walt.) B.S.P.		15	Cape May, N.J.
2333	" canina L.		15	"
2334	Carex seorsa E.C. Howe KKM		15	West Cape May, N.J.
2335	Panicum angustifolium Ell.		16	Cold Spring, N.J.
2336	Carex laxiflora Lam.		15	Cape May
2337	" ~~sterilis Willd.~~ (atlantica Bailey) ! Herm.	ϕ	15	West Cape May
2338	" viridescens		15	"
2339	" howei Mack. ! Herm.		15	"
2340	Chondrilla juncea L.	β	16	Fishing Creek, Cape May Co.
2341	Myrica asplenifolia L.	Δ	16	Cold Spring
2342				
2343	Bartonia paniculata (Michx.) Robinson	V	16	Bennett, N.J.
2344	Agrostis pseudointermedia		16	"
2345	Lespedeza repens (L.) Bart.	T.	16	"
2346	Vaccinium vacillans Kalm.	Δ	16	"
2347	Panicum polyanthes Schultes		16	"
2348	Rynchospora rariflora Mx. ! Herm.	Ⓛ	16	
2349	Panicum ensifolium Baldw.	Ⓛ	16	Cold Spring
2350	Lespedeza procumbens Michx.	T	16	Bennett.
2351	Krigia virginica (L.) Willd.		16	"
2352	Polygala mariana Mill.	β	16	"
2353	Panicum clutei	Ⓛ	16	"
2354	" wrightianum		16	"
2355	Polygala nuttallii T. & G.	β	16	"
2356	Helianthemum majus B.S.P.		16	"
2357	Eleocharis tuberculosa (Michx.) R. & S.	H	16	"
2358	Myosotis micrantha Pallas		15	Cape May
2359	Agrimonia mollis (T. & G.) Britton	Δ	16	Bennett
2360	Sisyrinchium mucronatum Michx.	β	15	Cold Spring
2348a.	Scleria triglomerata Michx.		16	Bennett

No.	Species		July 1917	Locality		5	10		15
2361	Populus nigra italica Du Roi		15	Cold Spring, N. J.	/				
2362	Broussonetia papyrifera (L.) Vent.		16		/				
2363	Torilis ~~anthriscus (L.) Bernh.~~ japonica (Houtt.) Thunell		16	1 Matthews	/		/.	/	/.
2364	Ruellia ciliosa Pursh		16						
2365	Eriocaulon decangulare L.		16				/		
2366	Polygala lutea L.		16				/		
2367	Viburnum molle Michx.		16		/		/		/.
2368	Helenium nudiflorum Nutt.		16				/.		/.
2369	Quercus heterophylla		16				/.		/.
2370	Eleocharis tortilis (Link) Schultes		16				/.	/	/.
2371	Allium canadense L.		16	Cape May, N. J.	/				
2372	Diodia virginica L.						/		
2373	Sericocarpus tenuifolius			Bennett, N. J.			/.		
2374	Rynchospora gracilenta Gray		16	Cold Spring.	/.		/	/.	/.
2375	Suaeda maritima (L.) Dumort		16	Cape May	/		/.		
2376	Spiranthes vernalis Engelm. & Gray		16		/		/	/	/.
2377	Puccinella distans (L.) Presl		16				/	/	
2378	Fimbristylis castanea (Michx.) Vahl		16						
2379	Carex silicea Olney		16				/.		/.
2380	Panicum lindheimeri Nash		16	Cold Spring	/		/		
2381	Festuca rubra L.		16		/		/		
2382	Juncus gerardi Loisel.		15	Cape May			/		
2383	Lathyrus latifolius L.		15		/		/		
2384	Erodium cicutarium (L.) L'Hér.	β	15		/				
2385	Oenothera laciniata Hill.		15		/		/		
2386	Artemisia pontica L.		15		/		/	/.	/.
2387	Coronilla varia L.		15		/		/		
2388	Cirsium lanceolatum (L.) Hill		15		/				
2389	Agrostis alba maritima (Lam.) G.F.W. Mey		15		/		/		
2390	Erigeron ramosus discoideus		15		/				

No.	Name	July 1917	Locality		10		15
2391	Panicum meridionale Ashe	15	Cape May, N. J.	/	/		
2392	Plantago intermedia Gilibert.	"	"	/	/		
2393	Spartina patens (Ait.) Muhl.	"		/	/		
2394	Carex debilis Michx.	"	West Cape May, N. J.	/			
2395	Salix fragilis L.	"	"	/	/		
2396	Panicum lucidum Ashe	"	"	/	/		
2397	" ashei Pearson	"	"	/	/		
2398	Scleranthus annuus L.	"	"		/		
2399	Panicum auburne Ashe	16	~~Cold Spring~~	/	/	/	/
2400	" scoparium Lam.	15	"	/			
2401	" lanuginosum Ell.	15	"	/	/		/
2402	Geum flavum (Porter) Bicknell	15	"	/			
2403	Galium pilosum punctilobulum (Michx.) T. & G.	15	"	/			
2404	Rhododendron viscosum (L.) Torr.	15	"	/			
2405	Tipularia discolor (Pursh) Nutt.	15	"		/		
2406	Crataegus tomentosa L.	15	"		/		/
2407	Quercus bicolor Willd.	15	"	/			
2408	Carex muhlenbergii Schkuhr.	"	Cape May, N. J.	/	/	/	/
2409	Panicum dichotomum L.	"	"	/			
2410	Hypericum adpressum Bart.	"	"		/		
2411	Polygonum aviculare vegetum Ledeb. ♀	"	"	/	/		
2412	Eleocharis quadrangulata (Michx.) R. & S. E	"	"	/	/		
2413	Glyceria septentrionalis Hitchc.	"	"	/	/		
2414	Carex triceps hirsuta (Willd.) Bailey	"	"	/			
2415	Juncus scirpoides Lam.	"	"	/	/		
2416	" effusus costaplanensis	"	"	/	/		
2417	Aletris farinosa L.	"	"		/		
2418	Cladium mariscoides (Muhl.) Torr.	"	"	/	/		
2419	Panicum microcarpon Muhl.	"	"	/	/		
2420	" hemitomum Schultes E	"	"	/	/	/	
2420a	Linaria canadensis	"	"		/		

No.	Species	Date	Locality
		July, 1917	
2421	Panicum caerulescens	15	Cape May, N. J.
2422	Carex venuta minor Boeckl.		
2423	Juncus marginatus Rostk.		
2424	" acuminatus Michx.		
2425	Scutellaria integrifolia L.		
2426	Holcus lanatus L.		
2427	Carex striata brevis Bailey		
2428	Eleocharis palustris glaucescens (Willd.) Gray		
2429	Panicum sphaerocarpon Ell.		
2430	Oenothera linearis Michx.		
2431	Juncus brachycarpus Engelm.		
2432	Panicum huachucae Ashe		
2433	Carex swanii		
2434	Panicum commutatum Schultes		
2435	Chimaphila maculata (L.) Pursh		
2436	Carex nigro-marginata Schwein.		
2437	Lactuca hirsuta Muhl.	16	Cold Spring, N. J.
2438	Salvia lyrata L.	16	"
2439	Panicum addisonii Nash	15	Cape May
2440	Carex laxiflora michauxii Bailey	16	Cold Spring.
2441	Panicum ashei Pearson	16	
2442	" barbulatum Michx.	16	
2443	" villosissimum Nash	"	
2444	" albemarlense	"	
2445	" columbianum Scribn.	"	
2446	Eleocharis obtusata (Willd.) Schultes	"	
2447	Baptisia tinctoria (L.) R. Br.	"	
2448	Erianthus saccharoides Michx.	17	Cape May
2449	Gentiana porphyrio J.F. Gmel.	9/16/17	"
2450	Sabatia lanceolata (Walt.) T. & G.	16	Cold Spring
2449a	Gnaphalium purpureum L.	"	Cape May

No.	Species		July, 1917	Locality	5	10	15
2451	Aristida purpurascens Poir.		16	Cold Spring, N. J.		1	
2452	Liparis liliifolia (L.) Richard	γ	15	West Cape May, N. J.			
2453	Cinna arundinacea L.		16	Cold Spring, N. J.			
2454	Leontodon autumnalis L.	♄	17	Cape May, N. J.			
2455	Gerardia flava L.	γ	16	Cold Spring			
2456	Polygala verticillata L.	β	16				
2457	Panicum meridionale Ashe	β	16				
2458	" spretum Schultes		15	West Cape May			
2459	" depauperatum Muhl.		15	Cape May			
2460	"		16	Colds Spring			
2461	Vaccinium		16	Bennett, N. J.			
2462	Juncus articulatus L.	⊙	16	"			
2463	" effusus L.		16	Cold Spring		1	
2464	Paspalum pubescens Muhl. ~~setaceum Michx.~~		16	"		1	
2465	Cyperus ovularis (Michx.) Torr.	S	17	Cape May			
2466	Carex cephalophora Muhl.	S	15	"			
2467	Scirpus robustus Pursh	Ɛ	16	Cold Spring		1	
2468	Agrostis perennans alata (Pursh) Hitchc.	Ψ	16	Cape May		1	
2469	Ruellia ciliosa Pursh	α	16	Cold Spring			
2470	Rubus		16	"			
2471	Linaria canadensis (L.) Dumont		16	West Cape May			
2472	Panicum virgatum cubense Griseb.		17	Cape May			
2473	" scoparioides Ashe ~~clandestinum L.~~ Chas.		16	Cold Spring			
2474	Juncus		16	"			
2475	Utricularia resupinata B.D. Greene	⊡	19	Hammonton Lake, N. J.			
2476	Sparganium americanum Nutt.	⊡	19	" "			
2477	Nymphoides lacunosum Vent.	⊡	19	" "		1	
2478	Lolium perenne L.	♄	20	Hammonton, N. J.			
2479	Krigia amplexicaulis	ι	20	"			
2480	Panicum virgatum cubense Hitchc. & Chase	ι	19	"			
2452a.	Gerardia purpurea L.	Ɛ	17	Cape May			

Col. 5 [illegible]

JEB

No.	Name	Symbol	Date	Locality	
2481	Panicum lindheimeri Nash		July 1917 19	Hammonton, N. J.	
2482	" commonsianum Ashe				
2483	" virgatum cubense				
2484	"				
2485	" dichotomum L.				
2486	" clutei				
2487	Bromus commutatus Schrad.				
2488	Agrostis perennans (Walt.) Tuckerm.				
2489					
2490	Danthonia spicata L.				
2491	Scirpus				
2492	Eleocharis obtusa (Willd.) Schultes				
2493	" tenuis " "				
2494	" " " "				
2495	" ~~tuberculosa (Michx.) R. & S.~~ capitata (L.) R.Br.			Lee Sv.	
2496	" tenuis (Willd.) Schultes				
2497	Carex vulpinoidea Michx.				
2498	" walteriana				
2499	" folliculata L.				
2500	Adiantum decoratum Maxon & Weatherby	Δ	1917 9/19	Ancon Hill, 150 meters	1
2501	Blechnum occidentale L.	[symbol]		"	1
2502	Polypodium costaricense Christ	Δ		"	1
2503	Adiantum kalbreyeri Maxon & Weatherby	γ		"	
2504	Anemia oblongifolia (Cav.) Sw.	[symbol]		"	1
2505	Lygodium polymorphum (Cav.) H.B.K.	μ		"	1
2506	Dicranopteris flexuosa (Schrad.) Underw.	λ		"	1
2507	Selaginella fendleri Baker	λ		"	1
2508	Trichomanes pinnatum Hedw.	γ	9/21	"	1
2509	Adiantum villosum L.	γ		"	1
2510	" kalbreyeri Maxon & Weatherby	γ		"	1
		γ	9/24		

No.	Name		1917	Locality					
2511	Adiantum lucidum Sw.	γ	9/24	Ancon Hill, 150 meters	1		1	1	1
2512	Diplazium delitescens Maxon	H	9/30	About 2 miles east of Juan Diaz	1	(1)	-1	1	1
2513	" grandifolium Sw.	H		"			1 1	1	
2514	Dryopteris tristis (Kze.) Ktze.	H		"	1		- 1	1	
2515	Danaea nodosa (L.) J. E. Smith	H		"	1		1	1	
2516	Tectaria martinicensis (forma) (Spreng.) Copel.	H		"			1	1	
2517	" "	H		"	1		-	1	
2518	Vittaria lineata?	⊗		"	1		-		
2519	Trichomanes ~~punctatum (Poir.) H. & G.~~ sphenoides Kunze	⊗		"	1			1	1
2520	Adiantum petiolatum Desv.	γ		"	1		1	1	
2521	Adiantum ~~pulverulentum~~	γ		"	1				
2522	" lucidum Sw.	γ		"	1				
2523	Dryopteris ~~mollis~~ dentata (Forsk.) C. Chr. (Jacq.) Hieron.	H		"	1	(1)	11	1	111
2524	Trichomanes diversifrons (Bory) Mett.	H		"	1	(1)	11 1 1 1	1	
2525	Adiantum concinnum H. & B.	γ		"	1		-	1	1
2526	Gymnopteris rufa (L.) Bernh.	♡ γ		"	1		1	1	
2527	Dicranopteris pectinata (Willd.) Underw.	♠ ♡		"				1	
2528	Ceratopteris pteridoides (Hook.) Hieron.	o		About 1 mile west of Juan Diaz	1				
2529	Dryopteris ~~mollis~~ dentata (Forsk.) C. Chr. (Jacq.) Hieron.	H	10/2	" 2 miles east " " "	1				
2530	Alsophila blechnoides (Rich.) Hook	H		"	1		1 1 1	1 1	
2531	Saccoloma elegans Kaulf.	H		"	1				
2532	Trichomanes pinnatum Hedw.	H		"	1		-	1	
2533	Polypodium occultum Christ	H		"	1		-1	1	
2534	Polypodium polypodioides (L.) Watt	H		"	1			1	
2535	Dictyoxiphium panamense Hook.	H		"	1		111 1 1	1 1	
2536	Selaginella sylvatica Baker	H		"					
2537	Lygodium radiatum Prantl	H		"	1		1 1 1	1 1	
2538	Dryopteris refulgens (Kl.) C. Chr.	H		"	1		1 1	1	
2539	Adiantum lucidum Sw.	H		"	1			1	
2540	Alsophila microdonta Desv.	H		"	1		1	1	1
2522a	Adiantum villosum L.				1				

No.	Name		1919	Locality
2541	Dryopteris tristis (Kze.) Ktze.	γ	10/6	Orange River region, east of Juan Diaz
2542	Adiantum ~~lunulatum Burm.~~	"		"
2543	" philippense Burm.	"		"
2544	Polybotrya caudata Kunze	"		"
2545	Adiantum phillipsii Maxon & Weatherby	"		"
2546	Selaginella conduplicata Spreng. (B)	"		"
2547	" schrammii Hieron.	"		"
2548	Dryopteris ampla (Willd.) Ktze.	"		"
2549	Lindsaya quadrangularis Raddi	"		"
2550	Lindsaya quadrangularis Raddi	"		"
2551	Blechnum occidentale L.	λ	10/7	Along Tapia River
2552	Cyclopeltis semicordata (Sw.) J. Sm.	γ		"
2553	Selaginella fendleri Baker	"		"
2554	Adiantum	"		Orange River region, east of Juan Diaz
2555	" villosum L.	"		"
2556	Dryopteris cumingiana (Kze.) Ktze.	\		"
2557	Eschatogramme ~~furcata (L.) Trev.~~ panamensis C. Chr.	γ		"
2558	Lophidium elegans (Vahl) Presl	"		"
2559	Dryopteris angustifolia (Willd.) Urban	‡		"
2560	Adiantum obliquum Willd.	γ		"
2561	Asplenium auritum Sw.	γ		"
2562	Adiantum lucidum Sw.	γ		"
2563	Blechnum fraxineum Willd.?	γ		"
2564	Adiantum petiolatum Desv.	γ		"
2565	Selaginella fendleri Baker	✗		"
2566	Dryopteris ~~panamensis (Presl) C. Chr.~~ resinifera (Desv.) Weatherby	\	10/11	Valley of the Chivi Chivi
2567	Asplenium ~~obtusifolium L.~~ membranifolium Maxon	γ	(type)	"
2568	~~Pteris biaurita L.~~ Cyclopeltis semicordata (Sw.) J. Sm.	γ		"
2569	Pteris biaurita L.	Δ		"
2570	Polypodium flagellare Christ	Δ		"

No.	Name		Date	Locality
2571	Asplenium auritum Sw.	Δ	10/11	Valley of the Chiva Chiva River
2572	Fern	γ		" 75 m.
2573	Polypodium costaricana Christ	"		"
2574	Selaginella pittieri Baker	"		"
2575	Asplenium formosum Willd.	"		"
2576	Blechnum occidentale L.	λ		"
2577	Adiantum concinnum H. & B.	\		"
2578	Anemia pastinacaria Moritz.	ε		"
2579	" hirsuta (L.) Sw. var. humboldtiana Hieron.	ε		"
2580	Adiantum decoratum Maxon & Weatherby	H	10/10	About 2 miles East of Juan Diaz 50 m.
2581	Polypodium flagellare Christ	H		"
2582	Pteris kunzeana Agardh.	H		"
2583	Polypodium phyllitidis L.	\	10/14	Along Tapia River 50 m.
2584	Tectaria rheosora (Baker) Maxon	\		"
2585		\		"
2586	Adiantum villosum L.	Δ	10/18	Ancon Hill, 150 meters
2587	" kiehlii	Δ		"
2588	Lindsaya stricta (Sw.) Dry.	λ		"
2589	Pityrogramma calomelanos (L.) Link	♡	10/21	Along Tapia River, about 1 mi.
2590	Adiantum lucidum Sw.	γ		north of Pacora road, 75 m
2591	Selaginella flagellata Spring	"		"
2592	~~Vittaria~~ Polytaenium lineatum (Sw.) Jsm.	"		"
2593	Trichomanes krausii Hook. & Grev.	"		"
2594	Elaphoglossum ~~spathulatum (Bory) Moore~~ hayesii Mett.	"		"
2595	Dryopteris angustifolia (Willd.) Urban	"		"
2596	Pteris kunzeana Ag.	"		"
2597	Asplenium ~~lactum Sw.~~ serratum... trichomanifolium	"		"
2598	Adiantum seemanni Hook.	"		"
2599	Asplenium auritum Sw.	"		"
2600	Vittaria lineata (L.) J. E. Sm.	"		"

No.	Name			Date	Locality
2601	Polypodium ~~costaricense Christ (sens. lat.)~~ occultum Christ		γ	10/21	Along Tapia River, about
2602	Asplenium serratum L.		"		1 mi. north of Pacora road, 75 m.
2603	Anathacorus angustifolius (Sw.) U. & M.		"		"
2604	Polypodium n. sp.		"		"
2605	Selaginella ambigua cf flagellata Bkr.	(B)	H		Near the Juan Diaz River,
2606			H		about 4 mi. above Juan Diaz
2607	Polypodium repens Aubl.		γ		"
2608	Adiantum pulverulentum L.		"		"
2609	Dryopteris poiteana (Bory) Urban		"		"
2610	Maxonia apiifolia var.		"		"
2611			"		"
2612			"		"
2613	Polypodium occultum Christ		"		"
2614			"		"
2615	Adiantum serrato-dentatum Willd.		"	10/23	"
2616	"		"		"
2617	" villosum L.		"		"
2618	Polypodium phyllitidis L.		"		"
2619	Selaginella fendleri Baker	(B)	"		"
2620	Trichomanes ~~punctatum (Poir.) H. & G.~~ sphenoides Kunze		H		"
2621	" krausii Hook. & Grev.		γ		"
2622	Hypoderris		"	10/25	Along the Tapia River
2623	Selaginella fendleri Baker	(B)	"		"
2624	Tectaria dilacerata (Kze.) Maxon		"		"
2625	~~Cyathea~~ Alsophila tenerifrons Christ		"		"
2626	Selaginella flagellata Spring.	(B)	"		"
2627			"		"
2628	Pteris kunzeana Ag.		"		"
2629			"		"
2630	Asplenium pulchellum Raddi		"		"
2615a	Adiantum serrato-dentatum Willd.				

No.	Name		Date	Locality
2631	Lindsaya lancea (L.) Mett.	γ	10/25	Near the Juan Diaz River,
2632	~~Pteris kunzeana Ag.~~	"		about 4 mi. above Juan Diaz
2633	Selaginella conduplicata Spr.	"		" 75 m.
2634	Pteris pungens Willd	"		"
2635	Serjania trachygona Radlk.	"		"
2636	Dryopteris poiteana (Bory) ~~Urban~~	Δ	10/29	Taboga Island
2637	Adiantum petiolatum Desv.	"		"
2638	Dicranopteris	"		"
2639	Anemia humilis (Cav.) Sw.	"		"
2640	Polypodium kuhnii Fourn.	"		"
2641	Nephrolepis exaltata (L.) Schott	"	10/30	"
2642	Dryopteris ~~longifolia (Fée) Hieron.~~ standleyi n. sp.	"		"
2643	Adiantum serrato-dentatum Willd.	"		"
2644	Selaginella ~~fendleri Bak.~~ sylvatica Bak.	"	10/31	"
2645	Adiantum petiolatum Desv.	"		"
2646	Polypodium sp.	"		"
2647	Athyrium skinneri (Baker) Moore	γ	~~10/~~ 11/4 Mar	Between Alhajuela & El Vigia
2648	Gymnopteris rufa (L.) Bernh.	"		"
2649	Adiantum	"		"
2650	Asplenium obtusifolium L.	"		"
2651	Adiantum lunulatum Burm.	"		"
2652	Stenochlaena vestita (Fourn.) Underw.	"		"
2653	Cyclopeltis semicordata (Sw.) J. Sm.	"		"
2654	Dryopteris patula (Sw.) ~~Underw.~~ Kuntze	"		"
2655	" poiteana (Bory) Underw.	"		"
2656	Asplenium auritum Sw.	"		"
2657	Adiantum lucidum Sw.	"		"
2658	" villosum L.	"		"
2659	Polypodium occultum Christ	"		"
2660		"		"

54a Dryopteris patula (Swartz) Kuntze

57a Adiantum ~~latifolium Lam.~~ petiolatum Desv. ~~panamense Max.~~

No.	Species		Date	Locality	Elev.		
2661	Elaphoglossum spathulatum (Bory) Moore	γ	11/4	Between Alhajuela & El Vigia			
2662	Pteris biaurita L.	"		"	60 m.	1	
2663		"		"			
2664	Blechnum occidentale L. (form)	"		"		1.	
2665	Polypodium polypodioides (L.) Watt	"		"			
2666	Acrostichum danaeifolium (L.) L. & F.	Ω		Gamboa	25 m.	1	
2667	Selaginella ~~fendleri Baker~~ sylvatica Bak.	γ		Between Alhajuela & El Vigia		1	
2668	Adiantum	"		"	60 m.		
2669	Asplenium pumilum Sw.	"		"			
2670	" ~~obtusifolium L.~~ membranifolium Mett.	"		"			
2671	Selaginella flabellata Spring	"		"			
2672	Acrostichum aureum L.	Z	11/7	Old Panama		1	(1)
2673	Polypodium phyllitidis L.	\	11/9	Along ~~Pacuma~~ Pacora River		1	
2674	Pteris kunzeana Agardh.	\		"	50 m.	1	
2675	Adiantum decoratum Maxon & Weatherby	Π		"		1.	
2676	" andicola ~~caryotideum Hook.~~ ~~seemanni Hook.~~ Liebm.	Π		"		1	
2677	" seemanni Hook.	\		"		1	(1)
2678	Dryopteris ampla (H. & B.) Ktze.	\		"		1	
2679	Adiantum ~~decoratum Maxon & W.~~ pulverulentum ×	\		"		1.	
2680	Tectaria dilacerata (Kze.) Maxon	\		"		1	(1)
2681	Polypodium flagellare Christ	\		"			
2682		\		"			
2683	Selaginella	\		"			
2684	Elaphoglossum spathulatum (Bory) Moore	\		"		1	
2685	Dryopteris dentata (Forsk.) C. Chr. ~~mollis (Jacq.) Hieron.~~	\		"			
2686		\		"			
2687	Ceratopteris pteridoides (Hook.) Hieron.	Δ		Juan Diaz	35 m.	1	
2688	Adiantum cumingianum (Kze.) Ktze. (large form)	H	11/11	Near the Juan Diaz River,			
2689	~~Dryopteris hillii Maxon n. sp.~~	H		about 4 mi. above Juan Diaz		1.	
2690		H		"	75 m.		
						1.	
2674a							
2681a	Polypodium flagellare Christ						

No.	Name		Date	Locality	
2691	Trichomanes krausii H. & G.	H	11/11	Near Juan Diaz River, about	1
✓ 2692	~~Cyathea~~ Alsophila tenerifrons Christ	"		4 mi. above Juan Diaz	1
2693	Polypodium (indeterminable)	"		" 50-75 m.	1
2694	Eschatogramma ~~furcata~~ panamensis (L.) ~~C.Chr.~~	"		"	
2695	Polypodium flagellare Christ	(H)	11/25	Cruces-Panama road	
2696	Adiantum obliquum Willd.	H	11/29	Near Tapia River, 1/2 mi. south	1
2697	Polypodium nsp.	"		of Pacora Road 30 m.	1
2698	Polypodium occultum Christ	"		"	
✓ 2699	Pteris pungens Willd.	"		"	
2700	Asplenium auritum Sw.	"		"	
2701	Trichomanes punctatum (Poir.) H. & G.	"		"	1
2702	Polypodium flagellare Christ	"		"	1
2703	" nsp.	"		"	
2704	" occultum Christ	"		"	1
2705	Dryopteris patula (Sw.) ~~Underw.~~ Kuntz	"		"	1
2706	~~Hypoderris~~ Pleuroderris michleriana (D.C. Eaton) Maxon	"		"	1
2707		"		"	
2708	Diplazium delitescens Maxon	"		"	1
2709	Anathacorus angustifolius (Sw.) U. & M.	"		"	1
2710	Asplenium laetum Sw. (sens. lat.)	"		"	1
2711	Anemia humilis (Cav.) Sw.	₣ ∈	12/9	About 3 mi. east of Juan Diaz	1
2712	Anemia pastinacaria Moritz	∈		" 75 m.	1 (1)
2713		∈		"	
2714	Anemia oblongifolia (Cav.) Sw.	∈		"	1
2715	Dryopteris angustifolia (Willd.) Urban	‡		"	
2716	Dryopteris cumingiana (Kze.) Ktze.	\		"	
2717	Trichomanes krausii H. & G.	γ		"	
2718	Polypodium phyllitidis L.	"		"	
2719	Dryopteris refulgens (Kl.) C.Chr.	"		"	1
2720	Anemia hirsuta (L.) Sw. var. humboldtiana Hieron	"		"	1

No.	Name		Date	Locality	Remarks
2721	Adiantum latifolium panamense Maxon ~~Type~~	γ	12/9	About 3 mi. east of Juan Diaz	
2722	Asplenium pulchellum Raddi	"		"	
2723	Selaginella	"		"	
2724	Adiantum ~~latifolium Lam.~~ obliquum Willd.	"		"	
2725	" kalbreyeri	"		"	
2726	" villosum L.	"		"	
2727	Selaginella cladorrhizans A.Br.	"		"	
2728	moss	"		"	
2729	Polypodium costaricense Christ	"		"	
2730				"	
2731	Adiantum ~~filiforme Gardn.~~ deflectens G var. tremula (Kunze) Hieron.	" \	Mar.	Ancon Hill, 150 m.	
2732	Tectaria rheosora (Baker) Maxon	\	12/23-24	Along Tapia River, 0–50 m.	
2733	Tectaria dilacerata (Kunze) Maxon	\		"	
2734	~~Tectaria~~ ~~Hypoderris~~ Pleuroderris michleriana (Eat.) Maxon			"	
2735	Blechnum fraxineum Willd.?	\		"	
2736	Diplazium delitescens Maxon	\		"	
2737	Asplenium pulchellum Raddi	\		"	
2738	" " membranifolium Maxon	\		"	(unicate)
2739	Dryopteris (~~mollis (Jacq.)~~ Hieron.) dentata (Forsk.) C. Chr.	\		"	
2740	Dryopteris mercurii (A.Br.) Hieron.	\		"	
2741	~~Cyathea~~ Alsophila tenerifrons Christ	γ		"	
2742	Dryopteris effusa (Sw.) Urban	\		"	
2743	Polypodium	γ		"	
2744	~~Selaginella~~ Dryopteris ~~conduplicata Spreng.~~ effusa (Sw.) Urban var.	\		"	
2745	Tectaria rheosora (Baker) Maxon	\		"	
2746	Hypoderris	\		"	
2747	Dryopteris ampla (H&B) Ktze.	\		"	
2748	Polypodium braziliense Poir.	On palm	12/26	Ancon, Hospital grounds	
2749	" " ursh	"		"	unicate
2750	Nephrolepis biserrata (Sw.) Schott	"		"	

x = new det. July 27

No.	Name		Date	Locality
x 2751	Nephrolepis ~~exaltata (L.) Schott~~ pendula (Raddi) J.Sm.?	On palm	12/26	Ancon Hospital grounds
2752	Adiantum ~~kielii~~ ~~nicotianaefolium (Sw.) C. Chr.~~ kieliii Maxon & Weatherby (type)	Δ	12/29	Ancon Hill. 125 m.
+ 2753	Leptochilus ~~panamensis~~ Maxon n.sp.	H	12/30	About 2 mi. east of Juan Diaz 50 m.
2754	Polypodium phyllitidis L.	H		"
2755	Polypodium ~~n.sp.~~ costaricense Christ	H		"
2756	Leptochilus alienus (Sw.) C.Chr.	H		"
2757		H		"
2758	Adiantum	H		"
✓ 2759	Tectaria ~~—~~ rheosora (Baker) Maxon	γ		Along the Pacora road, between
2760	Dryopteris ~~panamensis (Presl) C. Chr.~~ resinifera (Desv.) Weatherby	γ		the Tapia & Tecumen Rivers
2761	Polypodium phyllitidis L.	γ		" 50 m.
2762	Anemia pastinacaria Moritz	ε		"
2763	Polypodium costaricense Christ	Δ		"
2764	Dryopteris poiteana (Bory) Urban	Δ	1918	"
2765	Polypodium costaricense Christ	H	1/6	Near the Tapia River, 1/2
2766	Polypodium n.sp.	H		mi. south of Pacora road
2767	Adiantum	γ		About 3 mi. east of Juan Diaz 75 m
2768	Selaginella fendleri Baker	γ		"
2769	Blechnum occidentale forma	γ		"
2770	Lycopodium cernuum L.	α	12/16/17	Las Cascadas, C.Z.
2771	Selaginella exaltata (Kunze) Spring	λ	1/7/18	Balboa Heights, C.Z.
2772	Polypodium costaricense Christ	Δ	"	Ancon Hill, 150 m.
2773	Dryopteris poiteana (Bory) Urb.	~~Δ~~ γ	12/16/17	Las Cascadas, C.Z.
2774	Adiantum villosum L.	Δ	1/7/18	Ancon Hill, 100 m.
2775	Polypodium costaricense Christ	Δ	1/13 Mrs. L.R. Cornman & G.G. Colburn	Near the Juan Diaz River,
2776	Adiantum macrophyllum Sw.	H		about 4 mi. above Juan Diaz
2777	Pteris kunzeana Agardh.	"		" 75 m.
✓ 2778	Leptochilus ~~oligarchicus (Baker) C. Chr.~~ killipii Maxon (type)?	"		"
2779	Tectaria rheosora (Baker) Maxon?	"		"
2780	Diplazium grandifolium Sw.	"		"
2755 dup.	Polypodium costaricense Christ			

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No.	Name		1918	Locality	Tally (5, 10, 15)
2781	Hemitelia multiflora (Sw.) R. Br.	H	1/13	Near the Juan Diaz River,	1 1 1 1 1
√2782	Tectaria plantaginea (Jacq.) Maxon	"		about 4 mi. above Juan Diaz	1 1
2783	Selaginella conduplicata Spring	"		"	1 1
2784	" flabellata Spring	"		"	1 1
2785	Hemitelia multiflora (Sw.) R. Br.?	"		"	
2786	Cyathea? (too young)	"		"	1
2787	Hypoderris	"		"	1 1
2788	Diplazium delitescens Maxon	"		"	1 1
2789	Leptochilus alienus (Sw.) C. Chr.	"		"	1
2790		"		"	
2791	Adiantum	"		"	
2792	Stenochlaena vestita (Fourn.) Underw.	"		"	
2793	Trichomanes pinnatum Hedw.	γ	1/16	Along the Tapia River, about	
2794	Polypodium costaricense Christ	"		1 mi. north of Pacora Road	1
2795		"		" 75 m.	
2796	Adiantum petiolatum Desv.	"	1/20	Vicinity of Agua Buena	1
2797	Anemia phyllitidis L.	"		" 100 m.	1 1 1
2798	Adiantum	"		"	
2799	" petiolatum Desv.	\		"	1
2800	Polypodium n. sp. dentatum (Forsk.) C. Chr.	γ	Mr. Cornman	"	1
√2801	Dryopteris (mollis (Jacq.) Hieron.)	\	1/25	Frijoles, C. Z. 30 m.	(1) 1 1
2802	Hemitelia petiolata Hook.	\		"	1 (1) 1 1 1 ⅡⅡ
2803	Selaginella exaltata (Kze.) Spring	\		"	1 1 1
2804	Leptochilus ~~alienus (Sw.) C. Chr.~~ cladorrhizans (Spreng.) Maxon	\		"	1 1
2805	Diplazium subsylvaticum Christ?	\		"	1 (1) 1 1 1
2806	" delitescens Maxon	\		"	1 1
2807	Adiantum	\		"	
√2808	Tectaria rheosora (Baker) Maxon	\		"	1 1
2809	Pteris kunzeana Ag.	\		"	1
2810	Asplenium laetum Sw. (sens. lat.)	\		"	1 1 1 ⅡⅡ
2807a	~~Adiantum~~ Asplenium pulchellum Raddi				1

Feb.

No.	Name		Date	Locality
2811	Adiantum wilsoni Hook.	~	1/25	Frijoles, C. Z.; 30 m.
✓ 2812	Eschatogramme ~~furcata (L.) Desv.~~ panamensis C. Chr. ~~C. Chr.~~	⊗		"
2813	Asplenium laetum Sw. ?? (extreme form)	~		"
2814	Stenochlaena vestita (Blume) Underw.	~		"
2815		⊗		"
2816	Adiantum villosum L.	~		"
2817		⊗		"
2818	Cyclopeltis semicordata (Sw.) J. Sm.	~		"
2819	Dryopteris serrata (Cav.) C. Chr.	On floating logs in Gatun Lake		"
2820	Acrostichum ~~aureum~~ excelsum L.			"
x 2821	Nephrolepis ~~pectinata (Willd.) Schott~~ pendula (Raddi) J. Sm.?			"
2822	Adiantum macrophyllum Sw.	~		"
2823	Hemitelia petiolata Hook.	~		"
2824	Adiantum latifolium Lam.	γ	1/27	Pedro Miguel, C. Z. 25 m.
2825	Pteridium caudatum (L.) Maxon	γ		"
2826	Adiantum petiolatum Desv.	γ		Frijoles, C. Z. 30 m.
2827	Trichomanes krausii H. & G.	~		"
✓ 2828	Tectaria rheosora (Baker) Maxon	~		"
✓ 2829	Asplenium laetum Sw. (sens. lat.)	\		"
2830	Tectaria martinicensis (Spreng.) Copel.	\		"
2831	Dennstaedtia ordinata (Kaulf.) Moore	~		"
x 2832	~~Adiantum~~ "	~		"
2833	Hemitelia petiolata Hook.	\		"
2834	Adiantum killipii Maxon & Weatherby	\		"
✓ 2835	Pteris propinqua Agardh.	\		"
2836	Diplazium delitescens Maxon	\		"
✓ 2837	Dryopteris ampla (H. & B.) Ktze.	\		"
2838	Tectaria martinicensis (Spreng.) Copel.	γ		"
2839		γ		"
✓ 2840	Pteris ~~kunzeana~~ propinqua Agardh.	γ		"

						J.E.B.	5	10	15	
2841	Adiantum	γ	1/27	Frijoles, C.Z., 30 m.						
2842	Tectaria rheosora (Baker) Maxon ?	γ		"	|				|:	-|. |.
2843	Dryopteris mercurii (A. Br.) Hieron.	γ					—	| |	|	
2844	Adiantum	γ	3/10	Near the Juan Diaz River						
2845	Polybotrya villosula Christ	H		about 4 mi. above 75 m.	|		|.		|.	-|.
2846	Leptochilus nicotianaefolius (Sw.) C. Chr.	H		Juan Diaz						
2847	Dryopteris panamensis (Presl) C. Chr.	\		"	|		—	|		
2848	Dicranopteris pectinata (Willd.) Und.	✗π		"	|.	(1)	—		|	-|.
2849	" bifida (Willd.) Maxon	π		"	|		-	|	|	
2850	Selaginella conduplicata Spreng.	π	J.R. Cornman	"	|					
2851	Polypodium costatum Kunze	H		"	|				|	-|
2852		"		"					|	
2853	Alsophila trichiata Maxon	"		"	|		|.		|	-|.|.
2854	Adiantum obliquum Willd.	"		"	|.					
2855	~~Hypo~~ Pleuroderris michleriana (Eaton) Maxon	"		"	|				|	
2856	Adiantum pulverulentum L.	\	3/24	Along the Tecumen River	|.				|	
2857	" villosum L.	\		" 75 m.	|					
2858	Dryopteris ~~panamensis (Presl) C. Chr.~~ resinifera (Desv.) Weatherby	\		"	|.	(1)	—	|	|.	
2859	Tectaria rheosora (Baker) Maxon	\		"	|				|	-|.|.
2860		\		"						
2861	Blechnum fraxineum Willd.?	\		"	|		—	|		
2862	Dryopteris effusa divergens (Willd.) Hieron.	\		"	|				|	
2863	Leptochilus ~~panamensis Maxon n. sp.~~ pergamentaceus Maxon	H		About 2 mi. east of Juan					|	
2864	Pteris kunzeana Ag.	H		Diaz. 40-50 m.					|	
2865	Pityrogramma calomelaena (L.) Link	H		"			|		|	
2866	Tectaria rheosora (Baker) Maxon.	H		"	|		—		|.	(|.|.)
2867	Adiantum ~~campylotrichum Hook.~~	\		"	|					
2868	" ~~latifolium panamense Maxon~~ petiolatum Desv.	\	3/29	Along the Tataria River	|		—		|	-|.
2869	Cyclopeltis semicordata (Sw.) J. Sm.	\		"	|.					
2870	Adiantum villosum L.	^		"	|		—		|	-|.

 Ⓡ = 1 spec. to Rosenst. only.

No.	Name		Date		Locality
2871	~~Selaginella~~ Pteris kunzeana Ag.	\	3/29		Along the Tataria River
2872		\			"
2873	~~Dryopteris [illegible]~~ Adiantum andicola Liebm. ~~caryotideum Christ~~	?\			"
2874	" pulverulentum L.	\			"
2875	"	\			"
2876	~~Adiantum~~ Pteris biaurita	\			"
2877	~~Dryopteris~~ tristis (Kze.) Ktze.	\			"
2878	~~Adiantum pulverulentum~~ ~~Leptochilus oligarchicus (Baker) C. Chr.~~	γ	4/2		Between Bella Vista & Las
x 2879	Adiantum decoratum Ⓡ	γ			Savannas
2880	Pteris kunzeana Agardh	γ			"
2881	~~Hemitelia multiflora (Sm.) R. Br.~~ Pecluma martinicensis (Spring) Copel.	γ	4/20		Vicinity of Chorrera
2882	~~Fectaria~~	γ			"
2883	~~Selaginella~~ Hemitelia petiolata Hook.	Δ			"
2884	Polypodium occultum Christ	γ			"
2885	Dryopteris tristis (Kze.) Ktze.	γ			"
2886	Tristicha hypnoides Bl.	γ			"
2887	Dryopteris tristis (Kze.) Ktze	γ			"
2888	Alsophila mucrodonta Desv.	γ	4/21		"
✓ 2889	Adiantum	γ			"
2890	Dryopteris panamensis (Presl) C. Chr.	✗	4/28		About 3 mi. east of
2891	~~Adiantum~~ Selaginella conduplicata Spring	✗	"		Juan Diaz
2892	Adiantum	\	5/5		Near the Tapia River,
2893	~~Leptochilus~~ Bolbitis nicotianaefolia (Sw.)	\		Cling	1/2 mi. south of Pacora
2894	Polypodium ~~= 2697~~ costaricense Christ (sens. lat.)				road 40-50 m.
2895	Stenochlaena vestita (Fourn.) Und.	\			"
✓ 2896	Adiantum petiolatum Desv.	\			"
2897	~~Anemia phyllitidis (L.) Sw.~~	\			"
2898	Adiantum pulverulentum L.	\			"
2899	Asplenium laetum Sw. (sens lat.)	H			~~Frijoles, C. Z. 30 m.~~
2900	Stenochlaena ~~marginata (Schrad.) C. Chr.~~ japonensis (Mart.) Griseb.	H			"

No.	Name			Locality
2901	Salpichlaena volubilis ~~(L.)~~ Kaulf. J. Sm.	γ	5/20	Frijoles, C. Z. 30 m.
2902	Adiantum obliquum Willd.	γ		"
×2903	Dryopteris ~~guatemalensis~~ excul ta (Baker) C. Chr.	~		"
2904	Adiantum macrophyllum Sw.	~		"
2905	Stenochlaena ~~peruviana~~ japurensis (Mart.) Gaud.			"
2906	Trichomanes ~~radicans Sw.~~ martinezii Ros. (R)	~		"
√2907	Tectaria plantaginea (Jacq.) Maxon	~		"
/2908	Polypodium percussum Cav.	~		"
2909	Asplenium serratum L.	~		"
2910	Stenochlaena vestita (Blume) Underw.	~		"
2911	Polybotrya caudata Kunze	~		"
2912	Lycopodium cernuum L.	λ		"
√2913	Pteris propinqua Agardh.	δ		"
2914	Dennstaedtia ordinata (Kaulf.) Moore	~		"
√2915	Tectaria euryloba (Christ) Maxon	~		"
×2916	Leptochilus ~~alienum~~ cladorrhizans (Spr.) Maxon	~		"
√2917	Lindsaea quadrangularis Raddi	~		"
2918	Leptochilus oligarchicus (Baker) C. Chr.	~		"
√2919	Dryopteris	~		"
2920	Polypodium ciliatum Willd.	~		"
√2921	~~Cyathea~~ Alsophila tenerifrons Christ	~		"
2922	Asplenium laetum Sw. (sens. lat.)	~		"
2923	Adiantum obliquum Willd	~		"
2924	Stenochlaena	~		"
2925	Dryopteris leucophlebia (Christ) C. Chr. C. Chr.	~		"
√√2926	Eschatogramme ~~furcata~~ panamensis C. Chr. det. C. Chr.	~		"
×2927	Polypodium occultum Christ	~		"
2928	Trichomanes krausii H. & G.	~		"
2929	Polybotrya villosula Christ	~		"
2930		~		
2908a	Elaphoglossum	~		
2927a	Polypodium costaricense Christ	~		

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2934 Stenochlaena japurensis (Mart.) Grieb 1.
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1 = In herb. 4/15/24

				1917		aet.		
3000	Chlorophora tinctoria (L.) Gaud.		λ	9/18	Balboa Hgts., C. Z. 100 m.	100 m.	1.	|
3001	Kohleria tubiflora (Cav.) Haust.		λ	9/19	Ancon Hill, C. Z.	100-300m		| |
3002	Sauvagesia erecta L.	s	λ				|	| |
3003	Chiococca alba (L.) Hitchc.	S	Δ				|	
3004	Rondeletia panamensis DC.		Δ				1.	| | |
3005	Clidemia rubra (Aubl.) Mart.		Δ				|	
3006			Δ					
3007	Miconia ciliata (Rich.) DC.		Δ				|	| | |
3008	Visnia latifolia Choisy	S	Δ				|	
3009	~~[illegible]~~ Vanilla planifolia?	a	Δ				|	
3010	Solanum subinerme Jacq.	S	Δ				|	
3011	Conostegia speciosa Naud.		Δ				|	|
3012	Stigmatophyllum ellipticum Juss		λ				|	
3013	Bilbia straminea Griggs	Griggs	Δ				|	
3014	Solanum		λ					
3015	Mimosa ~~polydactyla~~ somniana H. & B.	K	λ				|	| | | |
3016	Borreria tenella (HBK)	S	λ				|	|
3017	Scoparia dulcis L.	P	x				|	
3018	Anemopaegma orbiculata DC.		x				|	
3019	Polygala paniculata L.		λ				|	
3020	Browallia erecta L.	S	λ		2			|
3021	Polygala variabilis H.B.K.		λ				|	
3022	Borreria tenella (H.B.K.) C. & S.		λ				|	
3023	Chamaecrista simplex Standl.		λ				|	
3024	Declieuxia mexicana DC.		λ				|	
3025	Melampodium divaricatum (Rich.) DC.		↑	9/21	Balboa Hgts.	100 m.	|	| |
3026	Solanum umbellatum Mill.	S	↑		~~Balboa~~ Ancon Hill 2	"	|	|
3027	Xanthosoma pilosum C. Koch		↑				|	
3028	Coutoubea spicata Aubl.		↑				|	
3029	Vinca rosea		β		Quarry Hgts, Ancon Hill	110 m.	|	
3030	Solanum jamaicense Mill.	S	β	9/22	Ancon Hill,	125 m.	|	

No.	Name			Date	Locality	Alt.		
3031			Δ	9/22	Ancon Hill	100 ~~200~~m.	/	
3032	Nectandra pichurin (HBK) Mez	S	Δ				/	//
3033	Kohleria tubiflora (Cav.) Haust.		Δ				/	
3034	Crotolaria guatemalensis Benth.		λ				/	
3035	Dioscorea pomoelis ~~[illegible]~~ Knuth ~~[illegible]~~ Type	Knuth	λ				/	/
3036			λ				/	
3037	Asclepias curassavica L.		λ				/	
3038	Melothria guadalupensis (Spreng.) Cogn.		λ					
3039	Momordica charantia L.		λ				/	///
3040	Cuphea calophylla C. & S.		λ					
3041	Piper ~~occidentale~~ san-joseanum C.DC.	J	Δ				/	/
3042	Helicteres guazumaefolia HBK.	S	Δ				/	//
3043	Selenipedium chica Reichb. f	a.	γ				/	
3044	Polystachya minor Fawc. & Rendle	a	γ				/	
3045			↑	9/23	Seawall, Panama	—		
3046	Euphorbia thymifolia L.		*		Panama	—		
3047	Evolvulus nummularia L.		↑		"		/	
3048			▲↑		Seawall, Panama			
3049			Δ	9/24	Ancon Hill	150m. ~~200m.~~	/	/
3050	Dioscorea panamensis Knuth Type		γ				/	
3051	Habenaria avicula Schltr. (! Schweinf.)		γ				/	
3052			γ	9/25				
3053	Psychotria undata Jacq.	S	γ				/	
3054	Rondeletia panamensis DC.		γ				/	
3055	Phryganocydia corymbosa (Vent.) Bur.		γ				/	////
3056			♄	9/27.	Balboa			
3057	Syndrella nodiflora (L.) Gaertn.		♄				/	
3058	Acalypha arvensis P. & E.	S	♄				/	
3059	Quamoclit quamoclit (L.) Britton		β		Balboa Hgts.		/	
3060	Meibomia		α		Bet. Balboa & Corozal			

3062a	Polygala brizoides St. Hil.	Bl				/
3061	Erigeron bonariensis L.		λ	9/28	Balboa Hgts. C. Z.	/
3062	Polygala angustifolia H.B.K.		λ		"	/
3063	Commelina ~~virginica~~ L. monticola Seub.?	S	λ	9/29	"	/
3064	~~Piper peltatum oblongum~~ Pothomorphe balboana Trel. (type)	J	λ		"	/
3065	Hylocereus triangularis	K	□		Bella Vista	/
3066	Furcraea cabuya integra Trel.	S	□			/
3067	Capraria biflora L.		Ψ			/
3068	Erechtites		Ψ			/
3069	Habenaria petalodea Lindl.	a	□			/
3070	Ocimum micranthum Willd.		□			/
3071	Phyllanthus dactyloides H.B.K.		□			/
3072	Caconapea sessiliflora (Benth.)	P	□			/
3073	Chamaesyce brasiliensis (Lam.) Small		Ψ			/
3074	Pithecollobium oblongum Benth		Ψ			/
3075	Elaterium longiflorum Cogn.		γ	9/30	2 mi. e. of Juan Diaz	/
3076	Pharus latifolia	Ch.	γ			/
3077	Habenaria petalodea Lindl.	a	γ			/
3078	~~Costus~~ Calathea panamensis Rowlee Type	Row.	γ			/
3079	Caconapea = Bacopa auriculata (Rob.) Greenm.	P	o		1 mi. w. " "	/
3080	Cornutia grandifolia (S. & C.) Schauer		β		Old Panama	/
3081	Hyptis verticillata Jacq.		Ω			/
3082	Finastrum clausum (Jacq.) Schlechter		Ω			/
3083	Schultesia guianensis (Aubl.) Malme		α		Near Juan Diaz	/
3084	Peperomia pellucida [illegible] ~~pygmaea Kunth~~	J	□		Old Panama	/
3085	Chrysanthellum integrifolium Steetz		α		Near Tapia River	/
3086	Polygala		α			
3087	Quamoclit quamoclit (L.) Britton		α			/
3088			o		1 m. w. of Juan Diaz	/
3089			α		Near Tapia River	
3090a	Heteranthera reniformis R. & P.		α		4 mi. w. of Juan Diaz	/
3090	Solanum scabrum Vahl					/

No.	Name			Date	Locality	1 5 10 15
3091	Indigofera mucronata Spreng	S	ψ	9/30	Old Panama	1
3092	Euphorbia ~~[illegible]~~ hyssopifolia L.		○		near Tapia River / 1 mi. w. of Juan Diaz	1
3093	Solanum scabrum Vahl		α		~~Ancon Hill back~~ ~~Near Tapia River~~	1
3094	Maranta arundinacea L.	K	α		Ancon Hill, back of house	1
3095			α		" " " "	
3096	Phyllanthus ~~niruri L.~~ diffusus Kl.		○		~~Near Tapia River~~ ~~1 mi. w. of Juan Diaz~~	1
3097	Cordia ferruginea (Lam.) R. & S.		α			1
3098	Jatropha urens L.		β			1
3099	Jussiaea suffruticosa L.	S	α			1
3100	Solanum allophyllum (Miers) Standl.	S	β			1
3101	" hirsutissimum Standl.	S	β			1
3102	Clitoria arborescens Ait.		β			1
3103	Evea tomentosa (Aubl.) Standl.		β			1
3104	Paullinia fuscescens HBK.	S	β			1
3105	Wedelia trilobata (L.) Hitchc.		Ω		Old Panama	1
3106			□		Old Panama	1
3107	Costus sanguineus Rowlee	Row.	γ	10/2	2 mi. E. of Juan Diaz	1
3108	Xiphidium caeruleum Aubl.		γ			1
3109	Spigelia humboldtiana C. & S.		γ			1
3110	Pleurostachys pruinosa (Reg.) K. Schum.	Row.	γ			1
3111			γ			1
3112	Begonia mameiana C. DC.		γ			1
3113	Scaphyglottis laevilabium Ames Type		γ			1
3114	Piper diazanum Trel. Type.		γ			1
3115			α		Near Bella Vista	
3116	Cosmos sulphureus Cav.	Bl	λ		Balboa Hgts	1
3117	Mimosa uncinata (Jacq.) Ktze		□	10/4	Bella Vista	1
3118	Psychotria horizontalis Sw.		□			1
3119	Wedelia jacquini caracasana (DC.) O.E. Schulz		β	10/5	Ancon Hill	1
3120	Spigelia ~~humboldtiana C. & S.~~ anthelmia L.		γ	10/6	Orange River Valley	1
3096a	Cornutia grandifolia (S. & C.) Schauer		<	9/30	Near Tapia River	1
3106a	Ocimum micranthum Willd.					1

3121	Caperonia ~~palustris St. Hil.~~ angusta Blake	S	θ	10/6	1-2 mi. E. of Tapia River	/		///
3122	Melochia lupulina Cav.		ε°			/		
3123	Piper ~~paraisanum~~ veliramulum C.DC.	J	\	10/7	Tapia River	/	/	
3124	Habenaria patentiloba Ames Type		γ		Orange "	/	/	
3125	Pectis panamensis Brandeg.	K	□	10/9	Bella Vista	/		/
3126	Sida carpinifolia L.f.	K	ζ	10/10	Ancon	/		
3127	Stylosanthes humilis HBK.	S	β^ε	10/11	Chivi Chivi	/		
3128	Polygala paludosa St. Hil.		β^ε			/		
3129	Utricularia		β^ε			/		
3130	Peperomia martagonifolia	J	(n)			/		
3131	Sida carpinifolia L.f.	K	β^ε			/		
3132	Lobelia fulgens Willd.		γ			/		
3133	Buchnera pusilla HBK	P	ε			/	/	//
3134	Cosmos caudatus H.B.K.		ε			/		
3135	Stachytarpheta jamaicensis Vahl		ε			/		
3136	Chelonanthus alatus (Aubl.) Standl.		ε			/		
3137	Crotalaria pterocaulis Desv.		ε			/		
3138			γ					
3139			‡					
3140	Habenaria alata Hook.	a	ε			/		
3141	Piper chiriquinum C.DC.	J	H	10/10	2 mi. E. of Juan Diaz	/	/	
3142	Habenaria petalodea Lindl.	a	Ω	10/12	Panama–Corozal road	/		
3143	~~Solanum~~ Physalis lagascae R. & S.	S	Ω			/		
3144	Galactia striata (Jacq.) Urb.	S	Ω			/		
3145	Vigna vexillata (L.) Rich.	S	Ω			/		
3146	Mimosa panamensis Standl.		Ω			//		
3147	Buettneria aculeata Jacq.		Ω			/		
3148	Achyranthes williamsii Standl.		Ψ	10/13	Bella Vista	/		
3149			χ	10/14	Tapia River			
3150	Hymenocallis littoralis (Jacq.) Salisb.		\			/		

3151	Geocardia violacea (Aubl.) Standl.			10/14	Tapia River	/
3152	=4117. Eleocharis geniculata R. Br.		z	10/18	Panama - Corozal road	/
3153	Pachyrhizus erosus (L.) Urb.	s	λ		Ancon Hill	/
3154	~~Solanum~~ Cyphomandra allophylla (Miers) Hemsl.		γ	10/21	Tapia River	/
3155	~~Capraria biflora hirta Loes.~~ ~~Hygrophila conferta Nees~~	P	#			
3156	Begonia filipes Benth		γ			
3157			γ			
3158			\			
3159	Achimenes panamensis (Seem.) Hemsl.		\			
3160			α		1-3 mi. E. of Tapia River	
3161	Meibomia axillaris (Sw.) Ktze.		β	10/23	Upper Juan Diaz River	/
3162	Bradburya angustifolia (H.B.K.) Ktze.		β			/
3163	Hyptis brachiata Briq.		β			/
3164	Phytolacca rivinoides Kunth & Bouché	s	\	10/25	Tapia River	/
3165	Piper ~~occidentale~~ san-joseanum C.DC.		Δ	10/29	Taboga Is.	/
3166	Microtea debilis Sw.	S.	Δ			/
3167	Begonia fimbriata Liebm.		Δ			/
3168	Cordia interrupta C. & S.		Δ			/
3169	Bradburya angustifolia (HBK) Ktze.		λ			
3170			λ			
3171	~~Eriosema Britt~~ Buchnera lithospermifolia P		λ			
3172	Crotalaria pterocaula Desv.		λ			/
3173	Habenaria petalodes Lindl.	a	Δ			/
3174	Cracca nitens (Benth.) Ktze.		λ			/
3175	Coutarea hexandra (Jacq.) Schum.	s	Δ			/
3176	Jatropha urens L.		λ			/
3177	Boerhaavia viscosa Lag. & Rodr.			10/30		/
3178	Priva lappulacea (L.) Pers.		↑			/
3179	Canavalia panamensis Piper	s	α			
3180	Clitoria arborescens Ait.	S	Δ			

3181	Brassavola nodosa Lindl.	a.	Δ	10/30 Nov.	Taboga Is	/	
3182	Guazuma tomentosa		Δ			/	
3183	Meibomia supina (Sw.) Britton		Δ			/	//
3184	Justicia carthaginensis L.		Δ			/	
3185	Talinum paniculatum (Jacq.) Gaertn.		Δ			/	
3186	Blepharodon mucronatum (Schl.) Dcne.		Δ			/	
3187	Meibomia barbata (L.) Ktze.		λ			/	
3188	Curtia tenella (Mart.) Cham.		λ			/	
3189	Polygala longicaudata		λ			/	
3190	Habenaria petalodes Lindl.	a.	λ			/	/
3191	" " "	a.	λ			/	/
3192	Russelia panamensis Pennell	P	Δ			/	
3193	Jacquemontia pentantha (Jacq.) Don		Δ				
3194	Piper subdilatatum Trel. Type		Δ	10/31		/	
3195	Piper ~~occidentale~~ san-joseanum CDC.	J	Δ			/	
3196	Talinum paniculatum (Jacq.) Gaertn.		Δ			/	
3197	Manihot utilissima Pohl	S	G			/	
3198	Phryganocydia corymbosa (Vent.) Bur		G			/	
3199	Erechtites hieraciifolia L.		G			/	
3200	Apeiba tiboubou Aubl.		G			/	
3201	Ipomoea cissoides (Lam.) Griseb.		G			/	
3202	Dioclea violacea Benth. ?	S	G			/	
3203	Bastardiopsis argentea (HBK) C.B.Rob.	S	G			/	///
3204	Peperomia		Δ				
3205			G				
3206	Melanthera aspera (Jacq.) Rich		λ			/	///
3207	Poinsettia heterophylla		λ			/	
3208	Hamelia erecta Jacq.	S	Δ			/	
3209	Amaranthus dubius Mart.		λ			/	
3210	Borreria ocymoides (Burm.) DC.	S	λ			/	

3211	Justicia comata Sw.		#	11/4	~~Gatun~~ Juan Mina		1	11
3212	Alternanthera ficoidea (L.) R.Br.	S	β		~~Alhajuela~~ "		1	
3213	Lippia dulcis Trev.		β		"		1	
3214	Urena lobata L.		β		"		1	
3215	Pseuderanthemum cuspidatum (Nees) Radlk		γ		Alhajuela		1	/
3216	Cleome pilosa Benth.	S	γ				1	//
3217	Buchnera pusilla ~~[illegible]~~ HBK.	P	γ				1	
3218	Peperomia killipi Trel. <u>Type</u>	T	γ				1	/
3219			γ					
3220	Acisanthera limnobios (DC.) Triana		γ				1	
3221			γ					
3222	Euphorbia lasiocarpa Kl.		♡				1	/
3223	Evolvulus ~~alsinoides L.~~ filipes Mart.		♡				1	
3224	Pectis elongata H.B.K.		♡				1	///
3225	Elvira biflora (L.) Cass		♡				1	
3226	Aeschynomene americana L.		♡				1	
3227	Ipomoea triloba L.		[illegible]	10/30 mac	Taboga Island	o	1	
3228	Bradburya sagittata (H&B) Rose	S	γ				1	
3229	Bradburya sagittata (H&B) Rose	S	λ	11/6	Balboa Hgts.		1	
3230	Dianthera pectoralis		γ	11/4	Alhajuela		1	
3231	Callisia umbellulata L.		□	11/7	Old Panama		1	/
3232	Borreria ocymoides (Burm.) DC.	S	□				/	
3233	Hyptis sp.		ε	11/9	Between Tapia & Tocumen		1	
3234	Borreria ocymoides (Burm.) DC.	S	ε		Rivers, 14-20 mi. E. of Panama		1	
3235			ε					
3236	Hyptis ~~lappacea Benth.~~ savannarum Briq.		ε				1	
3237	Schultesia heterophylla Miq.		ε				1	
3238	~~Hyptis suaveolens~~ ~~Marrubium vulgare L.~~ (L.) Poit.	S	ε				1	/
3239	Mibora barbata		ε				1	/
3240	Bacopa parviflora (Pennell)		ε				1	11
3240a	Epidendrum atropurpureum Willd.	a					1	

3241			ε	11/9	Between Tapia & Tecumen	/	
3242	Pterolepis trichotoma (Rottb.) Cogn.		ε		Rivers, 14-20 mi. E. of Panama.		
3243	Chamaecrista tagera (L.) Standl.		ε			/	
3244	Hyptis brevipes Poit.		ε			/	
3245	Solanum subinerme Jacq.		γ	11/11	Orange River Valley	/	
3246	Clitoria rubiginosa Juss.	s	γ				
3247	Trichopilia maculata Reichb. f.	a	γ			/	
3248	~~Ipomoea~~ Operculina tuberosa (L.) Meisn.		β	11/17	Balboa Hgts.		
3249			ψ	11/25	Bella Vista		
3250	Euphorbia densiflora Kl.		ψ				
3251	Ipomoea hirtiflora Mart. & Gal.		α		Cruces-Panama trail	/	
3252	" polyanthes R. & S.		α				
3253	Solanum asperum Rich.		α			/	
3254	Manettia uniflora H.B.K.		α			/	
3255	Clitoria rubiginosa Juss.		α			/	
3256			α				
3257	Calopogonium brachycarpum Benth.		α			/	
3258	Dalechampia tiliaefolia Vahl	s	α			/	
3259	Ipomoea pes-caprae (L.) Roth		α			/	
3260	Lophotocarpus guyanensis (HBK) J.G. Sm.		o	11/29	1 mi. W. of Juan Diaz	/	/
3261	Borreria ocymoides (Burm.) DC.	s	o			/	
3262	Acisanthera acisanthera (L.) Rose		o			/	//
3263	Schultesia heterophylla Miq.		o			/	/
3264	~~Peltaea~~ Pavonia sessiliflora (HBK) Standl.		o			/	
3265	Nama spinosa (L.) Ktze.		o			/	
3266	Curtia tenella (Mart.) Cham.		ε		Near Tapia River		
3267	Polygala hygrophila H.B.K.		ε			/	/
3269	Eupatorium amygdalinum (Lam.)		λ	12/2	Ancon Hill	/	
3268	Erechtites		λ			/	
3270	Erechtites hieracifolia (L.) Raf.		ε	12/9	Tapia River	jt	

3271	Eriosema hirta	Bl.	ε	12/9	Tapia River	/	
3272	Chaptalia nutans (L.) Polak.		ε			/	
3273	Rotala ramosior (L.) Koehne		\			/	
3274	Sida angustifolia		\			/	
3275	Manettia coccinea (Aubl.)	s	\			/	
3276	Erechtites hieracifolia L.		\			/	
3277	Chaetochlamys panamensis Lindau		\			/	
3278	Erechtites hieracifolia (L.) Raf.	Bl.	\			/	
3279	Blechum panamense Lindau		\			/	
3280	Sida linifolia Juss.		ε			/	
3281	Grimaldia [illegible] P.DC. ~~Cassia pauciflora~~ H.B.K.	~~Type!~~	ε			/	
3282	Polygala longecaudata HBK.		ε			/	
3283	Bletia purpurea P. DC.	ans	[illegible]			/	
3284	Pogonopus speciosus (Jacq.) Schum.		β			/	
3285	Borreria ~~spinosa~~ (L.) DC. & S.		[illegible]	12/10	Panama	/	
3286	Ipomoea triloba L.		λ	12/9	Ancon Hill		
3287	Baccharis rhexioides H.B.K.		λ			/	
3288	Momordica charantia L.		λ			/	
3289	Achyranthes indica (L.) Mill.		λ			/	
3290	Erechtites		λ			/	
3291			*	12/23–1/24	Tapia River	?/	
3292	Epidendrum stamfordianum Batem.	a.	γ			/	
3293	Elytraria squamosa (Jacq.) Lindau		ε			/	
3294	Petrea volubilis Jacq.		γ			/	,
3295	Combretum ~~fruticosum (Loefl.)~~ Stuntz sec. Exell	S	α			/	
3296	Serjania rhombea Radlk.		α			/	///
3297	Passiflora seemanni Griseb.		γ			/	
3298			β	12/26	Balboa Hgts.		
3299	Salvia occidentalis L.		β			/	/
3300	Erigeron bonariensis		β			/	

3301	Piper ~~[illegible]~~ peltatum ottonis		–	12/26	On palm, Ancon Hospital grounds	1	
3302			λ	12/29	Ancon Hill		
3303	Stylosanthes guyanensis (Aubl.) Sw.	S	ε	12/30	Near Tapia River	1	
3304	Meibomia angustifolia		ε			1	
3305			ε				
3306	Ruellia geminiflora HBK.		ε			1	
3307	Jacquemontia azurea (Desv.) Choisy		ε			1	
3308	Hyptis recurvata Poit.		ε		~~Pa~~ Panama-Pacora road near Tocumen Riv.		
3309	Ipomoea fastigiata Sweet		ε			1	
3310	Justicia pectoralis Jacq.		ε			1	
3311	Belotia panamensis Pittier		ε			1	1
3312	Eupatorium odoratum L.?		ε			1	
3313	Passiflora vitifolia H.B.K.		ε			1	1
3314	Ornithocephalus lanuginosus Ames "Type"		ε	= O. lanuginosum Will.		1	
3315	Blechum brownei Juss.		β	12/14/17	Balboa Hgts.	1	
3316	Euphorbia hirta L.		β	1/2/18		1	
3317	Phryganocydia corymbosa (Vent.) Bur.		α	12/16 Mac.	Las Cascadas	1	
3318	Piaropus azurea (Kunth) Raf.		[illegible]			1	
3319	Sobralia panamensis alba		γ	1/4	Chagres River, transpl. to Ancon Hill	1	
3320			γ	1/6	Upper Tapia River		
3321	Lobelia ~~ruderalis Willd.~~ cliffortiana L.		γ			1	1
3322	Chamaesyce adenoptera (Bertol.)		γ, ε			1	
3323	Neurolaena lobata (L.) R. Br.		γ			1	
3324	Chamaecrista simplex Standley		γ				
3325	Cipura paludosa Aubl.		β	1/8	Ancon	1	
3326	Aeschynomene americana L.	S	β			1	
3327	Chamaesyce hirta (L.) Millsp.		β			1	
3328	Spigelia anthelmia L.		β			1	
3329	Borreria spinosa (L.) C. & S.	S	[illegible]			1	
3330	Cuphea calophylla C. & S.		Δ	1/13	Orange River Valley	1	///
3323a	Cyathula achyranthoides (HBK) Moq.					1	

3331	Wissadula excelsior (Cav.) Presl	γ	1/13	Orange River Valley	1		
3332	Jacquemontia tamnifolia (L.) Griseb	γ			1		
3333	Pterolepis trichotoma (Rottb.) Cogn.	γ					
3334	Elephantopus mollis HBK. Bl	γ			1		
3335	Passiflora vitifolia HBK.	γ			1	1	
3336	Calopogonium caeruleum (Bth.) Hemsl. S	α		Near Juan Diaz	1		
3337	Ipomoea gracilis R. Br.	α			1		
3338	Operculina aegyptia (L.) House	α			1		
3339	Bauhinia pauletia Pers.	α			1		
3340	Jacquemontia pentantha (Jacq.) Don	α			1		
3341		α					
3342	Luffa cylindrica	α			1		
3343		α					
3344	Calopogonium caeruleum (Bth.) Hemsl. S	α			1		
3345	Ipomoea polyanthes R. & S.	↑	1/16	Paraiso, C.Z.	1		
3346	Bradburya plumieri (Turp.) Ktze.	α		Pedro Miguel, C.Z.	1		
3347	Quamoclit coccinea (L.) Moench	α			1		
3348	Bradburya pubescens (Benth.) Kuntze	α			1		
3349	~~Cardiospermum Corindum L.~~ grandiflorum Sw. S	α			1	1	1
3350	Jacquemontia pentantha (Jacq.) Don	α			1		
3351		↑		Paraiso, C.Z.			
3352		λ	1/18	Balboa Hgts.			
3353	Ipomoea polyanthes R. & S.	ε	1/20	Prov. of Abalaba, between Las Sabanas & Aguarubia	1		
3354	Cosmos caudatus HBK. Bl.	ε			1	1	
3355	Jacquemontia pentantha (Jacq.) Don	ε			1		
3356	Calea urticifolia (Mill.) DC.	ε			1		
3357	Ruellia haenkei (Nees) Lindau	ε			1	1	
3358	Ipomoea polyanthes R. & S.	ε			1		
3359	" gracilis R. Br.	ε					
3360		ε					
3348·	Boerhaavia erecta L.				1		
3331a	Cyperus rotundus L.	γ	1/13	Ancon Hill			

3361	Hirtella americana Aubl.		Δ	1/20		Vic. of Alcalaba between	/	
3362	Lisianthus seemannii (Griseb.) Ktze.		ε			Las Sabanas & Aguarmbia	/	
3363	Ipomoea polyanthes R. & S.		ε				/	
3364	" hirtiflora Mart. & Gal.		ε				/	
3365	Indigofera lespedezioides H.B.K.	S	ε				/	
3366	Cuphea utriculosa Koehne		ε*				/	
3367	Aeschynomene americana L.	S	ε				/	
3368			ε					
3369	Maximiliana vitifolia	S	δ	1/25		Near Frijoles, C.Z.	/	
3370	Ipomoea polyanthes R. & S.		δ					
3371	" quinquefolia L.		δ				/	
3372	Indigofera mucronatum Spreng.		δ				/	/
3373	Hyptis capitata Jacq.		⊙			Gatun Lake, " "	/	/
3374	Jussiaea suffruticosa L.		⊙				/	/
3375	Asclepias curassavica L.		δ				/	
3376	Habenaria repens Nutt.	a.	–			Floating logs, Gatun Lake	/	
3377	Stigmaphyllon humboldtianum Juss.		δ			Near Frijoles		
3378	~~[illegible] (H.B.K.) [illegible]~~		δ				/	/
3379	Myriocarpa longipes yzabalensis Donn. Sm.		Δ				/	
3380	Oldenlandia corymbosa L.	S	δ				/	/
3381	Tibouchina longifolia Cogn.		δ				/	
3382	Castalia ampla Salisb.		⊙			Gatun Lake, " "	/	
3383			Δ			Darien		
3384	Gomia diphylla (L.) Pers.		α	1/27		Pedro Miguel	/	
3385	Passiflora vitifolia H.B.K.		Δ				/	
3386	Erechtites		α				/	
3387	Odontonema flagellum (Oerst.) Ktze.		Δ				/	/
3388			⊗			Near Darien		
3389								
3390	Marattia? Marathrum schiedeanum [illegible]			3/10	L.R.C.	Juan Diaz ~~[illegible]~~ River	/	/

						1	5	10	15
94a									
3391	Rut		Δ	3/10	Orange River Valley	1			1
3392	" Distingel		Δ						1
3393			Δ	~~3/12 LRC~~					
3394	Aspasia ~~[illegible] Schltr.~~ principissa Rchb.f. ~~ined.~~	a	⊕	3/12 LRC	Near Tecumen River				
3395	Duranta ~~plumieri Jacq.~~ repens L. (Det. [illegible])		β	3/14	Old Panama	1			
3396	Meibomia scorpiurus (Sw.) Ktze	S	β	4/10	Balboa Hgts.	1			
3397	Iresine celosia L.		β			1			
3398	Hirtella amer. Aubl.!		α		Between Bella Vista & Las Sabanas				
3399			β						
3400	Elytraria tridentata Vahl		↑	4/6	Ruins at Old Panama	1			
3401	Capparis baducca L.	S	↑			1			
3402			↑						
3403	Mansoa difficilis (Cham.) Bur. & Schum.		α	4/20	Chorrera	1			
3404	Anacardium occidentale L.		α			1			
3405	Miconia albicans (Sw.) Triana		α			1			
3406	Jacquemontia perryana Duch. & Walp.		α			1			
3407	Psychotria carthaginensis Jacq.	S	α			1			1
3408	Peperomia ~~foliolifera Trel. [illegible]~~ cyclophylla Miq.		α			1			
3409	Hirtella mollicoma H.B.K.		α			1			
3410	Chamaesyce brasiliensis (Lam.) Small		ɣ	4/22	Ancon	1			
3411			ɣ	3/12 LRC	Tecumen River				
3412	Warscewiczella		ɣ	" "	" "	1			
3413	Chamaesyce thymifolia (L.)		ɣ	4/22	Ancon	1			1
3414	Curculigo scorzonerifolia Benth!		ε	4/28	Upper Tapia River	1			
3415	Byrsonima cumingiana Juss.		\			1			
3416	Turnera panamensis Urb.		Δ			1			1
3417	~~Casearia~~ Eugenia acapulcensis Steud.		H	5/5	Near Tapia River	1			
3418	Tournefortia obscura A. DC.		H			1			
3419	Psychotria emetica L. f. or axillaris cf.?		H			1			
3420a	Amaranthus spinosus L.		α			1			
87a	Gomphrena globosa L.	S				1			
3420	Piper subundispicum Trel.	T							

3421	Erechtites		α	5/5		Near Tapia River	1	
3422	Chaptalia nutans (L.) Hemsl.		α				1	1
3423	Miconia debilis Sw.		η	5/10		Balboa Hgts.	1	//
3424			η					
3425	Phaius glaber		λ	5/15		Ancon Hill	1	
3426			λ					
3427	Ipomoea polyanthes R.T.S.		λ					
3428	Evolvulus ~~alsinoides~~ filipes Mart.		λ				1	
3429	Ipomoea bona-nox L.		η	5/19		Balboa Hgts.	1	
3430				5/20		North of Frijoles	1	
3431	Solanum subinerme Jacq.		λ				1	
3432	Amaranthus dubius Mart.		δ				1	
3433								
3434	Cracca nitens (Bth.) Ktze.	S	δ				1	
3435	Serjania rhombea Radlk.		Δ				1	
3436	Roupala dariensis Pittier	S	γ				1	
3437	Polystachya minor Fawc. & Rendle	Ames	⊗				1	
3438							1	
3439	Heliotropium indicum L.		δ				1	
3440	Besleria ~~lutea~~ laxiflora Benth.						1	
3441	~~Sp~~ Borreria laevis (Lam.) DC.	S	δ				1	
3442								
3443	Psychotria pittieri Standl.	S	γ				1	
3444	Piper subtrinerve	S					1	
3445	Kallstroemia maxima (L.) T. & G.			5/20		North of Frijoles ~~Port-au-Prince, Haiti~~		
3446	Meibomia axillaris			"		"	1	
3447	Aspasia principissa Rchb. f.	Ames	⊗	5/20		North of Frijoles	1	
3448	Brassia cordata Lindl.	a	⊗	"		"	1	
3449	" " "	a	⊗	7/30	LRC	Tatania River	1	
3450								

3451								
3452	Miconia lacera (Bonpl.) Naud.	S	λ	5/15		Ancon Hill	1	
3453	Cleome spinosa L.	L.	α	5/25/18		Port au Prince, Haiti	1	
3454	Parthenium hysterophorus L.	L.	α	"		" "	1	
3455			γ	4/13/18		Juan Diaz, Orange River Valley	1	
3456	Rust			4/28/18		" "		
3457								
3458								
3459								
3460								
3461								
3462								
3463								
3464								
3465	Miconia impetiolaris Don.		△	5/15		Ancon Hill, 175 m.	1	
3466								
3467								
3468								
3469								
3470	Piper			5/20		Frijoles	1	
3471								
3472	Hygrophila conferta Nees (=3155 bis)		#	10/21/17		Tápia River	1	
3473	Mutant (= 3380 bis)		δ	1/25		Frijoles	1	
3474	Tabernaemontana grandiflora Jacq.					Ancon?	1	
3475	Echites billbergii					" ?	1	
3476	Ipomoea			12/30/17	with 3309	Tapia River	1	
3477								
3478								
3479								
3480								

3509a. Hyptis lantanifolia Poit.

No.	Name			Date	Locality		
3500	Polygala asperuloides HBK.	Bl	α	2/4/18	Boquete; between station & hotel 1500 m. ~~1550m.~~	/	
3501	" panamensis Chod.	Bl	α		" ; from Lino to 2 mi. up Caldera R.	/	
3502	Calliandra tetragona (Willd.) Benth.	Poc	α	2/5	Holcombs trail 1600 m.	/	/
3503	Polygala paniculata leucoptera Blake	Bl	α			/	
3504	Lobelia cliffortiana Willd.		α			/	
3505	Lopezia ~~hirsuta Jacq.~~ pubescens(?) Seem.	Bl	α			/	/
3506	Eriosema diffusum (HBK) Don	S	α			/	
3507	Jaegeria hirsuta	Bl	α			/	
3508	Lamourouxia gutierrezii Oerst	Rwp	α			/	//
3509	Castilleja communis Benth.		α			/	
3510	Verbena ~~bonariensis~~ littoralis HBK.		ε			/	
3511	Tillandsia juncea Lec.		π			/	
3512	Peperomia ~~quaternata~~ calderana Trel. type	J	⊗			/	
3513			⊗				
3514	Peperomia apoda Trel. Type [illegible]	J	⊗			/	
3515	Echeveria australis Rose		π			/	
3516			[illegible]				
3517	Epidendrum radicans Pav.	a	π			/	
3518	Cunila polyantha Benth.	S	ε		Lino	/	
3519	Peperomia ~~[illegible]~~ glabrior (C.D.C.) Trel. ~~Type~~	T	⊗	2/6	Holcombs Tr. ~~2-4~~ 8-10 mi. up.	/	
3520	" parietariifolia Trel. Type		⊗			/	
3521	Anthurium pallens Schott (Det. Standley)		γ			/	
3522	~~Spermacoce~~ Borreria laevis (Lam.) DC.	S	ε		Monniche Tr. 1700 m.	/	
3523	Piper hymenophlorum Trel. Type		⊗			/	
3524	Coffaea arabica		ε		Boquete 1500 m.	/.	
3525			ε				
3526	Hyptis recurvata Poit.		ε			/	
3527	~~Lotoxalis~~ Oxalis Maxonii Standl.		γ.	2/8	Grippens Tr. 1675 m.	/	
3529	Solanum		⊗			/	
3528	Peperomia ~~[illegible]~~ machaerodonta Trel. Type	J	⊗Δ			/	
3530	Peperomia palminervia Trel. Type		⊗			/	
3514a	~~Convolvulus alsinoides L.~~ Arenaria lanuginosa (Michx.) Rohrb.		ε			/	
3510a	Polygala panamensis Chod.					/	

3531	Peperonia ~~horquetae Trel.~~ allagotacta CDC. Type		Δ	2/8 ~~2/6~~		Guffens Tr. 1675 m	/
3532	~~Dorchilus~~ (no fls.; ! Schweinf.)		Δ				/
3533	Ponthieva (fls. too young)	a	γ				
3534	Peperonia subquadrifolia Trel.	T	γ	2/6	mac	Rio Panduro	
3535	" hernandifolia forma	J	⊗	"	"		/
3536			γ		EPK.		
3537	Peperonia ~~panamensis C.DC.~~ reticulifera. Trel. Type	J	⊗	2/10		Rio Panaduro 1550 m.	/
3538	" machaerodenta Trel. Type		⊗				
3539	Cardamine ovata Benth.	S	‡				/
3540	Pleurothallis falcatiloba Ames Type		ⓝ			Cerro de Paloma 1750 m.	
3541	Polygala gracilis HBK	Bl	∝	2/11		Holcombs Tr. 6-9 mi. above Lino	/
3542	Peperonia ~~calderana Trel. Type~~ seemanniana Miq.	T	⊗			Boquete ±1650 m.	/
3543	Pilea ~~boquetensis~~ cornmanae Killip Type		γ				
3544	Piper calderanum Trel. killipii var. Type		γ				/
3545	Dicliptera iopus Lindau		γ				/
3546	Pilea chiriquina Killip Type		Σ				
3547	Peperonia ~~boquetensis Type~~ pascuensis CDC.	T	⊗	2/13		Lino 1500 m.	/
3548	Piper chiriquinum C.DC.	J.	Σ				/
3549	Piper ~~[illegible] Trelease Type~~ callitrichum CDC. in pt.	W.J.	γ	2/14		~~Holcombs Tr. "8" mi. above Lino ±1650 m.~~	/
3550	Piper pseudopsis	J	γ				
3551			γ				
3552	Cuphea infundibulum Koehne		Δ				
3553	Lobelia laxiflora HBK.		β				/
3554			β				
3555	Epidendrum teretifolium Sw.	a	ⓝ				
3556	Ponthieva ~~glandulosa (Sims) R.Br.~~ racemosa (Walt.) Bohr?	a	o				
3557	Habenaria monorrhiza (Sw.) R.Br.	a	o				/
3558	Palicourea lanceolata Oerst.	S	Σ	2/15		Holcombs Tr. 8 mi. above Lino 1675 m.	/
3559	Tradescantia commelinoides R.&S.		Σ				/
3560	Browallia speciosa Hook.		Σ				
3549a	Piper ~~sulcatorum Trel. Type~~ callibracteum CDC.		γ	2/14			

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3561	Pyrthrodes killipii Ames - Type		Σ	2/15	Holcomb Tr., 10 mi. above Luis		1		1
3562			~~X~~	2/17	Boquete - 1675 m, near Camp I		1		
3563	Relbunium hypocarpium (L.) Hemsl.	S	Cl	2/18	Cordillera above Camp I		1		111
3564	Peperonia ~~infrat pallida Trel. Type~~ hypoplikoides CDC T		Σ			2000 m.	1		
3565	Camaridium grandiflorum Ames Type		Σ	2/19		"	1		
3566	~~[illegible] - 5498~~ orchid		Σ			"	1		
3567	Scaphosepalum longirepens Ames Type		Σ			"	1		1
3568			Π	2/23	Boquete	1500 m.			
3569	Cologania procumbens HBK.	S	Π	2/24	Piedra de Luis	1700 m.	1		
3570	Hypoxis decumbens L.	Brackett	Π				1		
3571	Oncidium cheirophorum Reichb. f.	a	(n)				1		
3572			(w)						
3573	Galium uncinulatum DC.		Δ						1
3574	Gaultheria costaricensis (Donn.-Sm.) Small A.C.S.		X				1		
3575	Hypericum gnidioides Seem.		X				1		
3576	Pleurothallis ruscifolia Sw. ~~aff.~~	a	Y	2/25	Rio ~~P[illegible]~~ Piarnasta	1600 m.	1		
3577	Hydrocotyle umbellata L.	Rose	O				1		
3578	Oxalis vulcanicola Donn. Sm.	S	Π	2/26	Volcan- Aguacatl	2200 m.	1		1
3579	Calceolaria sciadephora Donn. Sm. ! Pennell		Π						1
3580	Senecio multivenia Benth. (Det. Greenman)		Π				1		
3581	Cardamine ovata Benth.	S	Π				1		
3582	Galium aschenbornii Schaur.		Y			2300 m.	1		111
3583	Didymaea mexicana Hook.		Y				1	1	
3584	Epidendrum endresii Reichb. f.	a	Y			2400 m.	1		
3585	Peperomia lutulenta Trel. Type		Y						
3586			Y						
3587	Fuchsia parviflora Zucc.		Y		Cañassa	2500 m.	1		1
3588	~~Alsine~~ Arenaria megalantha (Rohr.) Williams		Y				1		111
3589	Lepanthes (nomatum [illegible])	a	Y				1		
3590	Salvia coccinea		Y				1		
			∓						

3591			γ	2/27	Volcán - Potrero	3000 m. ~~2900 m.~~	/	
3592	Geranium guatemalense Kunth		Δ				1	/
3593	Bidens triplinervia macrantha (Wedd.) Sheff		x		- Summit	3600 m	/	/
3594	Arctostaphylos arbutoides Hemsl.		x				1	
3595	Gnaphalium attenuatum DC. ?	Bl. oaes	x				1	
3596	Pernettya coriacea Kl.	Bl	x				1	
3597	Arcytophyllum lavarum K. Sch.		x				/	
3598	Hypericum gnidioides Seem.		x				/	
3599	Eupatorium chiriquense Robinson		x				/	/
3600	Castilleja ~~chiriquiensis Pennell~~ lycopodioides Baker	! Pennell	x		[illegible]		/	[illegible]
3601	Vaquerla fasciculata M. & G.		Δ				1	/
3602	Viola Nannei Polak.		ε		Potrero	3000 m.	1	/
3603	Peperomia quaternata potrerana Trel. type		γ	2/28	Aguacate	2500 m.	1	
3604			γ				/	//
3605	Lupinus elegans var. campestris ~~panamensis Standl.~~	C. P. Sm. ! C.P.S.	γ				/	/
3606	~~Desmodium~~ masonii ~~Standl.~~		γ				/	
3607	Drymaria villosa S. & C.	S	π				1	/
3608	Passiflora biflora Lam.		∝	3/1	[illegible] Lino	1450 m.	/	
3609	Evolvulus alsinoides debilis ~~sericeus Sw.~~ (HBK) v. Oost.		Δ				/	
3610	Epidendrum difforme Jacq.	Ames	⊗				/	
3611	Piper amphoricarpum Trel. Type		Δ				1	
3612	Ageratum scabriusculum (~~Kunth~~ Kunth) Hemsl. Bl		Δ				1	
3613	Rubus ~~adenotrichus Schlecht.~~ costaricanus Liebm.		Δ					
3614	Eriocaulon panamense Moldenke (Type)		o					//
3615			o					
3616	~~Jussiaea erecta L.~~ suffruticosa L.	S	o				/	
3617	~~Rhynchanthera mexicana (DC.)~~ ~~Acisanthera angustifolia (Vahl) Baill.~~	Bl.	Δ				/	/
3618	Helianthemum tenellum (Mart.) Britton	S	o				/	/
3619	Lobelia ~~fulgens Willd.~~ splendens dominica E. Wim. & Wimmer		o				/	
3620			o					
3612a	Spilanthes americana (~~Kunth~~ Mutis) Hieron.	Bl	o				/	

3621			o	3/1					
3622	Acisanthera limnobios (DC.) Triana		o				/		
3623	" "		o				/		
3624			o						
3625	Peperomia quaternata Miq.		o				1		
3626	Centaurium quitense (HBK) Rob.		o						
3627	Plantago major vulgaris f. sinuata (Lam.) Pilger Pilger		o	3/2			1		
3628			o				/	11	
3629	Fontanea herbacea (Lam.) Standl.		o				1		
3630	Sauvagesia erecta L.	S	o				1		
3631			o						
3632	Phyllanthus niruri L.		o				1	1	
3633			o						
3634	Jussiaea lithospermifolia Kunth		o				/		
3635	Passiflora biflora Lam.		ε	3/4		Sulphur Springs, David	/		
3636	Cut		m	3/5		Río Batia	1		
3637	Relbunium hypocarpium (L.) Hemsl.	S	ε	3/4		Sulphur Springs, David	1		
3638	Piper ~~linearifolium~~ costalifolium	neg. Type	ε				1		
3639	Spathiphyllum friedrichsthalii Schott		Δ		C.P.R.	Boquete	1		
3640			m	3/4		Río Batía, David			
3642	Monocardia hirsuta Pennell	P	o	3/1		2 miles below El Boquete	1		
3641	Acacia costaricensis	Saf.	β	3/4		Sulphur Springs, David		1	
3643	Disterigma ~~pernettyoides (5319)~~ empetrifolium (HBK) Drude	stacs	/ε	2/28		Cordillera above Camp I	1		First coll. no. of Colombia.
3644				2/18		Humid forest east of Vl Caldera	1		
3645									
3646									
3647									
3648									
3649									
3650									
3624a	Jussiaea suffruticosa L.	S					1		

No.	Name		1917	C.Z.					44
4000	Panicum pilosum Sw.	x	9/18	Balboa Heights, 100 m.	/	/	/	/	/
4001	Cyperus odoratus L.				/			/	
4002	Kyllinga pumila Mx.				/			/	
4003	Paspalum ~~fasciculatum Willd.~~ acutum Chase Type!				/				
4004	" paniculatum							/	
4005	" fasciculatum Willd.				/				
4006	Paspalum microstachyum Presl				/			/	
4007	Cenchrus viridis Spreng.				/			/	
4008	Cyperus surinamensis Rottb.				/			/	
4009	Fimbristylis diphylla Vahl				/				
4010	~~Panicum maximum~~				/				
4011	Paspalum pilosum Lam.		9/19	Ancon Hill 100–200 m.	/			/	/ /
4012	" plicatulum Mx.				/			/	
4013	Andropogon leucostachys HBK				/			/	// / /
4014	Andropogon ~~bicornis L. condensatus~~ HBK				/	/ /	/		/ /-/ //
4015	" condensatus HBK							/	
4016	Chaetochloa geniculata (Lam.) Millsp. & Chase								/
4017	Cyperus diffusus Vahl				/	/	/	/	//
4018	Rynchospora barbata (Vahl) Kth.				/	/	/	/	//
4019	" globosa (HBK) R. & S.				/			/	
4020	Panicum strigosum Muhl.				/			/	
4021	Chaetochloa geniculata (Lam.) Millsp. & C.		9/21	Balboa Heights	/	/	/		/
4022	Cyperus ligularis L.							/	
4023	Chaetochloa vulpiseta var? (Lam.) H. & C.			Quarry Hgts	/	/	/		// /
4024	Lasiacis procerrima (Hack.) Hitchc.		9/22	~~Quarry Hgts~~ Ancon Hill	/				
4025	Chaetochloa effusa (Fourn.) Hitchc.			"	/			/	
4026	~~Panicum trichoides Sw.~~				/				//
4027	Paspalum minus Fourn.				/			/	
4028	~~Olyra~~ Lasiacis ruscifolia (HBK) Hitchc.		9/24		/			/	
4029	Ichnanthus ~~pallens~~ tenuis (Presl) Hitchc.				/			/	
4030	Scleria lithosperma (L.) Sw.				/				
4018a	Rynchospora				/				
4020a	Olyra latifolia L.	C			/				

No.	Name			Date	Locality
					C Z.
4031	Paspalum plicatulum Moisch.		♀	9/27	Balboa
4032	Cyperus compressus L.		α		Corozal-Ancon road
4033	"		α		
4034	Uniola pittieri Hack.		Ψ	9/29	Bella Vista, Prov. Panama
4035	Bouteloua americana (L.) Scribn.		Ψ		
4036	Fimbristylis diphylla Vahl		Ψ		
4037	Cyperus fugax Liebm.		□		
4038	" globosus Aubl.		□		
4039	Eragrostis prolifera (Sw.) Steud.		Ψ		
4040	Lasiacis ruscifolia (HB) H. & C.		□		
4041	Cyperus globulosus Aubl.		□		
4042	Cyperus compressus L		□		
4043	Dactyloctenium aegyptium (L.) Richt.		□		
4044	Eragrostis ciliaris (L.) Link		Ψ		
4045	Cyperus simplex H.B.K.		α		nr. Juan Diaz, Prov. Panama, 50 m.
4046	" haspan L.		o		1 mi. w. of " " "
4047	Scleria lithosperma (L.) Sw.		o		
4048	Fimbristylis complanatus (Retz) Link		o		
4049	Fimbristylis miliacea Vahl		o		
4050	Lipocarpha ~~humboldtiana Nees~~ sphacelata (Vahl) Kunth.		α		
4051	Fimbristylis diphylla Vahl.		o		
4052	" "		o		
4053	Eleocharis sulcata (Roth) Nees		o		
4054	~~Rynchospora micrantha~~ Vahl; Psilocarya robusta (Kth.) Nees	B	o		
4055	Scleria liebmanni Steud.		o		
4056	Rynchospora eximia (Nees) Boeckl.		o		
4057	Kyllinga odorata Vahl		o		
4058	Scleria hirtella Sw.		o		
4059	Fimbristylis diphylla Vahl		o		
4060	Isachne polygonoides (Lam.) Doell.		o		

No.	Name		Date	Locality
				Prov. Panama
4061	Scleria pterota Presl	o	9/29	1 mi. w. of Juan Diaz 30 m.
4062	Cyperus simplex HBK.	γ	10/2	2 mi. e. " " . . .
4063	Ichnanthus axillaris (Nees) H. & C.	γ	10/2	
4064		α		Bella Vista Prov. Panama
4065	Panicum hirsutum Sw.	□	10/4	
4066	Syntherisma sanguinalis (L.) Dulac	□		
4067	Axonopus aureus Beauv.	β	10/5	Ancon Hill C. Z.
4068	Scleria hirtella Sw.	β		
4069	Scleria bracteata Cav.	β		
4070	Fimbristylis miliacea Vahl	ε	10/6	Tapia River Prov. Pan.
4071	" diphylla Vahl	H	10/7	
4072	Calyptrocarya glomerulata (Brongn.) Standl.	γ		Orange River
4073	~~Rynchospora eximia (Nees) Boeckl.~~ Psilocarya [illegible] (HBK) Nees β	γ:		
4074	Chaetochloa geniculata (Lam.) H. & C.	ε	10/11	Chivi Chivi 75-100 m.
4075	Rynchospora micrantha Vahl	ε		
4076		ε		
4077	Paspalum melanospermum Desv.	ε		
4078	Eleocharis sulcata (Roth) Nees	ε		
4079		ε		
4080	Paspalum plicatulum Mx.	ε		
4081	Paspalum paniculatum	ε		
4082		ε		
4083	Cyperus ~~[illegible] L.~~ ~~Olfersianus Kunth~~ densus Link β	ε		
4084	Paspalum melanospermum Desv.	ε		
4085	Panicum fasciculatum L.	γ		
4086		γ		
4087	Eragrostis acutiflora (HBK) Nees	ε		
4088	Paspalum plicatulum Mx.	γ		
4089	Oryza latifolia L.	γ	10/10	2 mi. e. of Juan Diaz
4090	Eleocharis mutata (L.) R.Br.	o		1 mi. w. " "

1 = E. C. K. [illegible]
2 = U.S. N. M. – [illegible]
3 = N. Y. B. G. (Brit?)
4 = [illegible] (H.N.)
5 = [illegible] (Eup.F)

No.	Name		Date	Locality	1234
4091	Eleocharis ~~sulcata~~ nodulosa (Roth) Nees ! So.	o	10/10	1 mi. w. of Juan Diaz	
4092	" " ?	o			
4093	" " ?	o			
4094	Andropogon leucostachys H.B.K.	z	10/12	Panama – Corozal road C. Z.	
4095	Panicum ~~trichanthum Nees~~ ~~fasciculatum Sw.~~	z			
4096	Fimbristylis complanata (Retz) Link	z			
4097	" miliacea Vahl	z			
4098	Scleria lithosperma (L.) Sw.	z			
4099	Paspalum plicatulum Mx.	z			
4100	Panicum ghiesbreghtii Fourn.	z			
4101	Cyperus panamensis (Clarke) Britton	z			
4102	" odoratus L.	z			
4103	Kyllinga ~~globulosa Aubl.~~ brevifolia Rottb. B	z			
4104	Chaetochloa geniculata (Lam.) M. & C.	z			
4105	Leptochloa virgata (L.) Beauv.	z			
4106	Paspalum densum Poir.	z			
4107	Echinochloa sabulicola (Nees) Hitchc.	z			
4108	Valota insularis (L.) Chase	z			
4109	Paspalum ~~virgatum~~ plicatulum Mx.	z			
4110	Panicum barbinode Trin.	z			
4111	Echinochloa colonum (L.) Link	z			
4112	Paspalum paniculatum Berg.	z			
4113	Panicum bahiense Hack.	z			
4114	Chaetochloa effusa (Fourn.) Hitchc.	cl	10/14	Tapia River Prov. Panama	
4115	Cyperus caracasanus Kunth	α			
4116	Paspalum plicatulum Mx.	z	10/18	Panama – Corozal road, C. Z.	
4117	Eleocharis geniculata (L.) R. & S.	α			
4118	~~Paspalum~~ plicatulum Mx.	z			
4119	~~Eleocharis~~ Eragrostis acutiflora (H.B.K.) Nees	z			
4120	Scleria liebmanni Steud.	λ	10/18	Ancon Hill 100–200 m. C. Z.	

4092 = 4092

No.	Name			Date	Locality
4121	Stenophyllus junciformis HBK.		λ	10/18	Ancon Hill, C.Z. 100-200 m.
4122	Thrasya petrosa (Trin.) Chase		λ		
4123	Rynchospora micrantha Vahl		λ		
4124	Panicum trichoides Sw.		cl	10/21	Tapia River, Prov. Pan.
4125	Paspalum nutans Lam.		γ		
4126			\		
4127			γ		
4128	Scleria bracteata Cav.		γ		
4129			γ		
4130	Cyperus simplex HBK.		γ		
4131			η	10/22	Ancon, C.Z. C.Z.
4132	Cyperus diffusus Vahl.		γ	10/14	Tapia River Prov. Panama
4133	Sporobolus pilifera (Trin.) Kunth		α	10/23	Near Juan Diaz
4134	Paspalum multicaule Poir.		α		
4135	Panicum trichanthum Nees		✗△	10/25	Tapia River
4136	Paspalum nutans Lam.		✗△		
4137	Panicum zizanioides HBK.		✗△	10/29	Taboga Island C.Z. ~~150~~-200 m.
4138	Cyperus ~~caracasanus Kunth~~ ? cyperoides (L.) Ktze	B	✗△		
4139	Panicum trichoides Sw.		✗△		
4140	Fimbristylis spadicea (L.) Vahl		□		
4141	Cyperus ligularis L.		□		
4142	Eleusine indica (L.) Gaertn.		λ		
4143	Dactyloctenium aegyptium (L.) Richt.		λ		
4144	Trachypogon montufari Nees		λ		
4145	Andropogon semiberbis (Nees) Kunth		λ		
4146	Anthephora hermaphrodita (L.) Kuntze		cl		
4147	Panicum trichoides Sw.		△	10/30	
4148	" fasciculatum		△		
4149	Cenchrus viridis Spreng.		△		
4150	Oryza sativa Sw.		△		

No.	Name	Habitat	Date	Locality
4151	Eragrostis ciliaris (L.) Link	Bog at top	10/30	Taboga Is. C.Z. 200 m.
4152	Rynchospora cephalotes (L.) Vahl.	Δ		" " 50-200 m.
4153	[illegible] ~~Rytelix~~ granularis (L.) ~~Skeels~~ [illegible]	Δ		
4154	Rynchospora barbata (Vahl) Kunth	Δ		
4155	" globosa (HBK.) R.&S.	Δ		
4156	Cyperus ~~[illegible]florus Nees~~ incompletus (Jacq.) Link NIB	Δ	10/31	
4157	Lasiacis ruscifolia (HBK) Hitc.	Δ		
4158	Chaetochloa vulpiseta (Lam.) H.&C.	λ		
4159		Δ		
4160	Axonopus compressus (Sw.) Beauv. C	Δ		
4161	Cenchrus viridis Spreng.	λ		
4162		G		
4163	Panicum rudgei R.&S.	G		
4164	Cyperus caracasanus Kunth?	Bank of steep str.		
4165	Panicum hirsutum Sw.	β	11/4	Gatuncillo, C.Z.
4166	Eragrostis tephrosanthos Schult.	β		
4167	Hymenachne amplexicaulis (Rudge) Nees	#		Juan Mina
4168	Rynchospora armerioides Presl	♡	11/5	Alhajuela
4169	Scleria hirtella Sw.	♡		
4170	Isachne polygonoides (Lam.) Doell.	ε	11/9	Between Tapia & Tocumen
4171	Rynchospora setacea (Berg.) Boeckl. B	ε		Rivers
4172		ε		
4173	~~Scleria pterota Presl~~ Rynchospora eximia (Nees) Boeckl.	ε		
4174	Eleocharis nodulosa Schult. B	ε		
4175	Andropogon saccharoides Sw.	ε		
4176	Saccharum officinale L.	α		Juan Díaz
4177	Cyperus compressus L.	ε		
4178	Fimbristylis complanata (Retz) Link	γ	11/11	
4179	Cyperus compressus L.	λ	11/7	Balboa Hgts, C.Z. 100 m.
4180	Oplismenus burmannii Beauv.	λ		
[illegible]	Ichnanthus axillaris (Nees) H&C			
4151a	Fimbristylis diphylla Vahl			

4181	Eragrostis amabilis L.	λ	11/17	Balboa Hgts, CZ 100 m.
4182	Leptochloa filiformis (Lam.) Beauv.	λ		
4183	Panicum haenkeanum (J. & C.) Presl.	Δ	11/24	Ancon Hill CZ, 125 m.
4184	Ischaemum rugosum Salisb.	↑	11/25	Balboa Hgts. CZ
4185	Panicum trichanthum Nees	α		Cruces-Panama ~~road~~ trail Prov. Pan
4186	Lasiacis sorghoides (Desv.) H. & C.	α		
4187	Chaetochloa geniculata (Lam.) M. & C.	α		
4188	Sporobolus pilifera (Trin.) Kth.	α		
4189	Isachne polygonoides (Lam.) Doell.	α		
4190	Panicum trichoides Sw.	β	11/29	Old Panama " "
4191	Oplismenus burmanni Beauv.	β		
4192	Aristida jorullensis Kunth	β		
4193	Lasiacis oaxacensis (Steud.) Hitchc.	λ	12/2	Ancon Hill, CZ 150-175 m.
4194	Aristida jorullensis Kunth	λ		
4195	Trachypogon montufari Nees	λ		
4196	Homolepis aturense (H.B.K.) Chase	λ		
4197	Aristida ~~recurvata H.B.K.~~ torta (~~Nees~~) Kth.	λ		
4198	Oryza sativa Sw.	ϵ	12/9	Tapia River, 75 m. Prov. Panama
4199	Eragrostis maypurensis Steud.	ϵ		
4200	" "	ϵ		
4201	Panicum trichoides Sw.	o		Bog 1 mi. west of Juan Diaz
4202	Panicum trichanthum Nees	o		
4203	Aristida capillacea Lam.	ϵ		Tapia River "
4204	Cymbopogon hirtus Beauv.	ϵ		
4205	Chaetochloa effusa (Fourn.) Hitchc.	β		Ancon Hill, 100 m. CZ
4206	Oplismenus hirtellus Beauv.	β		
4207	Panicum ~~trichoides Sw.~~ trichantum Nees	β		
4208	Ichnanthus tenuis (Presl) H. & C.	β		
4209	Oplismenus burmanni Beauv	β		
4210	Sacciolepis myuros (Lam.) Chase	m	12/24	Lower Tapia River near sea-level Prov. Panama

4211	Eleocharis retroflexa (Poir.) Urban ~~acicularis R. Br.~~	m̄	12/24		Lower Tapia River near ocean — Prov. Panama
4212	Eragrostis maypurensis	є			"
4213	Sorghastrum incompletum (Presl) Hack	є			"
4214	Muhlenbergia implicata (HBK) Kunth	є			
4215	Bouteloua triaena Scribn.	є			
4216	Panicum trichoides Sw.	β	12/26		Balboa Hgts. C.Z. 100 m.
4217		λ	12/29		Ancon Hill C.Z. 150–175 m.
4218	Andropogon leucostachys H.B.K.	λ			
4219	Andropogon condensatus H.B.K.	λ			
4220	Aristida recurvata HBK	λ			
4221	Trachypogon montufari Nees	λ			
4222	Lasiacis oaxacensis (Steud.) Hitchc.	γ	12/30		2 m. east of Juan Diaz — Prov. Panama
4223	Orthoclada rariflora Beauv.	γ			
4224	Sorghastrum incompletum (Presl) Hack	є			near Tataria ~~[illegible]~~ River "
4225	Cymbopogon hirtus Nees	є			
4226	Eragrostis maypurensis Steud.	є			
4227	Eragrostis acutiflora (HBK) Nees	є			Tapia River "
4228	Eriochloa distachya HBK.	є			near Tataria River "
4229	Ichnanthus axillaris (Nees) Hitchc.	є			
4230	Lasiacis oaxacensis (Steud.) Hitchc.	є			
4231	Paspalum repens Berg.	[illegible]	12/16	Mac. coll.	Las Cascadas C.Z.
4232	Panicum fasciculatum L.	α		"	
4233	Fimbristylis diphylla Vahl	α	~~12/14~~	"	~~Tapia River~~ ok — Prov. Pan.
4234		є	"		"
4235	Cyperus rotundus L.	↑	1918 1/4		Balboa Hgts. C.Z.
4236	Fimbristylis diphylla Vahl	↑	"		
4237	Panicum haenkeanum J. & C. Presl	γ	1/6		Tapia River 75–100 m.
4238	Oryza sativa Sw.	d			
4239	Panicum pulchellum Raddi	d			Prov. Pan.
4240	Syntherisma digitata (Sw.) Hitchc.	d			

No.	Name		Date		Locality
4241	Holcus sorghum L.	d	1/6		Tapia River 100 m. Prov. Panama
4242	Arundinella deppeana Nees	ε			
4243	Sacciolepis myuros (Lam.) Chase	m̲	12/24		Lower Tapia River "
4244	Oplismenus burmanni Beauv.	↑			
4245	Fimbristylis miliacea Vahl	α			"
4246	Cymbopogon hirtus Nees	β	1/8		Near Ancon-Pan. trail, E. of Corozal
4247	Echinochloa colonum (L.) Link	α	12/16	mac	Las Cascadas C. Z.
4248					Locality doubtful
4249	= 4328				"
4250	Leptochloa virgata (L.) Beauv.	z	1/10		Along Panama-Corozal road
4251	Chaetochloa geniculata (Lam.) M. & C.	z			C. Z.
4252	Fimbristylis diphylla Vahl	ε	1/6		Tapia River Prov. Pan.
4253		α		mac	Las Cascadas C Z
4254	Orthoclada rariflora Beauv.	γ			
4255	Syntherisma sanguinalis Dulac	β	1/11		Balboa Hgts. "
4256	Panicum haenkeanum (J. & C.) Presl	ε	1/16		Orange River Valley, Taboga
4257	Andropogon brevifolius Sw.	ε			Prov. Panama " "
4258	Trachypogon montufari Nees	ε			" "
✓ 4259	~~Muhlenbergia implicata (H.B.K.) Kunth~~ Aristida capillacea Lam.	ε	———		" "
4260	Paspalum parviflorum Rhode	ε			3rd "
4261	Arundinella berteroniana (Schult.) H. & C.	B			" "
4262	Kyllinga brevifolia Rottb.	ε			
4263	Lasiacis oaxacensis (Steud.) Hitchc.	γ			
4264		↑	1/14		Balboa Hgts. C Z
4265	Paspalum paniculatum L.	↑			Pedro Miguel locks C Z
4266	Sporobolus indicus (L.) R.Br.	↑			
4267	Coix lachryma-jobi L.	↑			Paraiso C Z
4268	Ischaemum rugosum Salisb.	m̲	1/20		Vic. of Arraijan Prov. Pan.
4269	Aristida jorullensis Kth.	ε			
4270	Eragrostis maypurensis Steud.	ε			
		↑			

Prov. Panama

✓?	4271	Eragrostis acutiflora (HBK) Nees	e	1/20	Vic. of Abalaba 100 m.
✓	4272	Panicum ~~[illegible]~~ ~~Sw.~~ ~~pulchellum~~	e		
	4273	Eragrostis maypurensis	e		
	4274	Sacciolepis myuros (Lam.) Chase	e (overwritten)		
	4275	Cyperus haspan L.	e		
	4276	Fimbristylis diphylla Vahl.	e		Vic. of Aguarübia ~~[illegible]~~ 125 m.
	4277	Eragrostis acutiflora (HBK) Nees	e		
	4278	Paspalum paniculatum L.	e		
	4279	Paspalum nutans Lam.	e		
	4280	" plicatulum	e		
	4281	Ichnanthus pallens (Sw.) Munro	e		
	4282	Panicum haenkeanum (J. & C.) Presl	e		
✓	4283	" (trichanthum Nees)	e		Vic. of Abaleba
	4284	Lasiacis oaxacensis (Steud.) Hitchc.	δ	1/25	Frijoles C Z 30 m.
	4285	Orthoclada rariflora Beauv.	δ		
✓	4286	Cyperus caracasanus Kunth.	δ		
	4287	Scleria ~~pterota Presl~~ melaleuca S. & C.	⊡		(Gatun Lake)
	4288	Panicum trichanthum Nees	δ		
	4289	" " "	δ		
	4290	Echinochloa colonum (L.) Link	δ		
	4291	Chaetochloa geniculata (Lam.) M. & C.	δ		
	4292	Pa~~spalum~~ geminatum Forsk.	⊡		" "
	4293	Imperata contracta (HBK) Hitchc.	δ		
✓	4294	Cyperus ~~odoratus L.~~ ehrenbergianus Boeckl.	δ		
	4295	Eragrostis ciliaris (L.) Link	δ		
	4296	Chloris radiata (L.) Sw.	δ		
	4297	Eragrostis tephrosanthos Schultes	δ		
	4298	Cyperus rotundus L.	δ		
	4299	Eragrostis tephrosanthos	δ		
✓	4300	Rynchospora corymbosa (L.) Britton			~~On floating [illegible]~~ In deep water in Gatun Lake C Z

4301	Panicum barbinode Trin.	δ	1/25		Near Frijoles C.Z.
4302	Rynchospora corymbosa (L.) Britton				Log in Gatun Lake C Z
4303	Panicum trichanthum Nees	δ			
4304	Anthephora hermaphrodita (L.) Ktze.	δ			
4305	~~Rynchospora~~ Scirpus cubensis Poepp. & Kth. B	⊡			Do "
4306	Lasiacis oaxacensis (Steud.) Hitchc. ~~Panicum fasciculatum L.~~	δ			
4307	Eragrostis amabilis	δ			
4308	Andropogon bicornis L.	δ			
4309	Panicum haenkeanum (J. & C.) Presl	α			Pedro Miguel, C.Z. 30m
4310	Arundinella deppeana Nees	α	1/27		
4311	Lasiacis ruscifolia (HBK) Hitchc.	α			
4312	Ichnanthus pallens (Sw.) Munro	α			
4313	Paspalum nutans Lam.	α			
4314	Ichnanthus tenuis (Presl) H. & C.	ε	1/20	Mac	Abalaba Prov. Pan
4315	Rynchospora cephalotes (L.) Vahl	γ	3/10		Orange River "
4316	Panicum polygonatum Schrad		3/24		Jecumen River "
4317	Orthoclada laxa Beauv.	γ			2 mi. e. of Juan Diaz "
4318		λ	3/26		Ancon Hill C Z
4319		λ			
4320	Lasiacis sorghoides (Desv.) H. & C.	λ			
4321	Andropogon leucostachys HBK	λ			
4322	Scleria mitis Berg.	\	3/29		Tataría River Prov. Pan
4323	Panicum barbinode Trin.	α	4/2		Between Bella Vista & Las Sabanas Prov. Pan
4324	Holcus halapensis L.	α			
4325					Loc. doubtful
4326	Panicum hirticaule Presl	β	4/10		Balboa Hgts. C. Z
4327	Syntherisma sanguinalis (L.) Dulac	β			
4328	Eleusine indica (L.) Gaertn.	β			
4329	Paspalum fasciculatum L.	β			
4330	Panicum barbinode Trin.	β			

	No.	Name			Date	Locality
	4331	Cyperus rotundus L.		β	4/10	Balboa Hgts. 100 m. CZ
	4332	Cyperus caracasanus Kunth		β		
	4333	Rynchospora corymbosa (L.) Britton		α?	4/20	Chorrera ~~CZ~~ Par. Pan.
	4334	Eleocharis acicularis R. Br.		α?		
	4335	Sporobolus indicus (L.) R. Br.		η	5/1	Balboa Hgts. CZ 80 m.
	4336	Panicum barbinode Trin.		Z	5/2	Corozal-Ancon Road CZ
	4337	Paspalum paniculatum Lam.		Z		
✓	4338	Fimbristylis spadicea Vahl	B	Z		
	4339	Capriola dactylon (L.) Ktze.		β	5/10	Ancon Hill CZ ~~Balboa Hgts~~ 100 m.
✓	4340	Cyperus diffusus Kunth	B	β		
	4341			λ	5/15	Ancon Hill 150-175 m.
	4342	Paspalum plicatulum Mx.		λ		
✓	4343	Leptocoryphium lanatum (HBK) Nees		λ		
✓	4344	Sporobolus cubensis Hitchc.		λ		
✓	4345	Rynchospora globosa (HBK) R.&S.	B	λ		
✓	4346	Panicum stenodoides Hubb.		λ		
✓	4347	Cyperus diffusus Kunth	B	λ		
	4348					
	4349					
	4350			δ	5/20	Frijoles, C.Z.
	4351	Lasiacis procerrima (Hack.) Hitchc.		δ		
	4352	Paspalum fasciculatum Sw.		δ		
	4353	Eragrostis amabilis ~~Panicum haenkeanum~~ (J.&C.) Presl		δ		
	4354	Panicum frondescens Mey.		δ		
	4355	Echinochloa colonum (L.) Link		δ		
	4356	Paspalum virgatum L.				
	4357	Chloris paraguayensis		α	5/24	Port au Prince, Haiti
✓	4358	Dichromena radicans S.&C.?		λ	5/15	Ancon Hill
	4359					
	4360					

(See next page)

•1 [illegible] found 4/10/24

All Prov. of Chiriqui thru 4590

No.	Name			1918	Locality
4500	Paspalum orbiculatum		δ	2/4	David, Prov. of Chiriqui
4501	" pumilum		δ		
4502	" notatum		δ		
✓4503	Syntherisma sanguinalis (L.) Dulac		δ		
4504	Eleusine indica (L.) Gaertn.		δ		
✓4505	Eragrostis secundiflora Presl		α	2/5	El Boquete, Chiriqui, 1250 m.
4506	Eragrostis tephrosanthos Schult.		α		
✓4507	~~Andropogon condensatus H.B.K.~~ [illegible] autumnalis R.&S.		α		
4508	Arundinella deppeana Nees		β		
4509	~~Paspalum~~ Andropogon condensatus H.B.K.		β		
4510	Paspalum candidum Kth.		Δ		Rio Caldera, 1-2 mi. above Boq. 13-1500 m.
4511	Carex polystachya Sw.		π		
4512	Lasiacis rhizophora (Fourn.) Hitchc.	c	π		
4513	Muhlenbergia setarioides Fourn.		⌢		
4514	Aegopogon tenellus (Cav.) Trin.		⌢		
4515	Agrostis pittieri Hack.		⌢		
4516	Lasiacis oaxacensis (Steud.) Hitchc.	c	γ	2/6	
4517	Uncinia hamata (Sw.) Urban		β	2/7	Near Lino Boquete 1350 m.
4518	Sporobolus berteroanus (Trin.) H.&C.		β		
4519			β		
4520	Cymbopogon bracteatus (Willd.) Hitchc.		β		
4521	Arundinella hispida (Willd.) Ktze.		β		
4522	Paspalum humboldtianum Fl.		β		
4523	Rynchospora polyphylla Vahl		cl	2/9	Rio Piamasta
4524	~~Lasiacis~~ Pseudechinolaena polystachya (HBK) Stapf	c	cl		
4525	Ichnanthus nemorosus (Sw.) Doell		cl		
4526	Paspalum olivaceum H.&C.		α	2/11	El Boquete 1350 m.
4527	~~Paspalum~~ Digitaria singularis Mez	c	α		
4528	Carex donnell-smithii Bailey	K.K.M.	π		
4529	Laciacis oaxacensis (Steud.) Hitchc.		Δ	2/14	Rio Caldera, 1-2 mi. above Boq.
4530	" liguláta		Δ		
[illegible]	Ichnanthus pallens (Sw.) Munro		π		
4528a	Panicum ~~olivaceum~~ H.&C.				

✓ 4531	Eleocharis sulcata (Roth) Nees	!Sv	B	o	2/14	O'Donnell Ranch, Valley Rio Caldera
✓ 4532	Kyllinga brevifolia Rottb.		B	o		
4533	Eleocharis ~~acicularis (L.) R.&S.~~ retroflexa (Poir.) Urban	!Sv	B	o		
4534	Cyperus ~~olfersianus Kunth~~ melanostachys H.B.K.?		B	o		
4535	Carex polystachya Sw.			π	2/15	Rio Caldera, 4 mi. above Boq. 1575 m.
4536	Polypogon elongatus H.B.K.			Cl	2/17	Camp I, Holcomb's trail, Rio Caldera, 1650 m.
✓ 4537	~~Cyperus~~ Rynchospora locuples C.B.Cl.?			Cl		
✓ 4538	" polyphylla Vahl			Cl		
4539	Kyllinga pumila Michx.		B	Cl	2/22	Big Falls of Paarnasta? 1550 m.
4540	Cyperus hermaphroditus (Jacq.) Standl.		B	Cl		
4541	Isachne arundinacea (Sw.) Griseb.		C	π	2/23	El Boquete
4542				α	2/24	Llano? Boquete
4543	Carex			Δ		Piedra de ~~Boquete~~ Llano?, Boquete
4544	Lasiacis sorghoidea (Desv.) Hitchc.			Δ		
4545	Andropogon hirtiflorus (Nees) Kunth			β		
4546	Carex donnell-smithii Bailey			π	2/26	Aguacate? Camp, Chiriqui Vol. 2300 m.
4547	Cinna poaeformis (HBK) Scribn. & Merr.			π		
4548	Agrostis tolucensis H.B.K.			ε	2/27	El Potrero " " 2900 m.
4549	Carex donnell-smithii Bailey			ε		
4550	Festuca amplissima Rupr.			ε		
4551	Aegopogon cenchroides H.&B.		ch	x		Summit, Chiriqui 3600 m.
4552	Agrostis tolucensis HBK			x		
4553				x		
4554				γ	2/28	" " 2100 m.
4555	Paspalum heterotrichum Trin.			γ		
4556	Panicum olivaceum H.&C.			Δ	3/1	2 mi. below Boquete, 1200 m.
4557	Aegopogon cenchroides H.&B.			β		
4558	Paspalum pilosum Lam.			β		
✓ 4559	" humboldtianum Flügge			β		
4560	Panicum olivaceum H.&C.			β		
4538a	Sporobolus ciliatus Presl.!			α	2/23	Llano? Boquete

No.	Name				Locality
4561	Panicum chiriquiense H. & C.		o	3/1	About 2 mi. below El Boquete,
4562			o		Valley of Rio Caldera, 1200 m.
4563	Panicum olivaceum H. & C.		β		
4564	Chaetochloa tenacissima (Schrad.) H. & C.		β		
4565	Panicum viscidellum Scribn.	Ch.	β		
4566	Cyperus haspan L.		o		
4567	Andropogon glomeratus (Walt.) B.S.P.		β		
4568	Eleocharis nodulosa (Roth) Schult.		o		
4569	Eleocharis mutata R. Br.	B	o		
4570	~~Kyllinga brevifolia Rottb.~~ Ascolepis brasiliensis (Kth.) Benth	B	o		
4571	Isachne polygonoides (Lam.) Doell		o		
4572			o		
4573	Fuirena incompleta Nees		o		
4574			o		
4575			o		
4576			α		
4577	Eleocharis sulcata (Roth) Nees		o		
4578	Andropogon leucostachyus H.B.K.		o		
4579	Rynchospora glauca Vahl	B	o		
4580	Eriochrysis cayennensis Beauv.		o	3/2	
4581			β		
4582	Paspalum minus Fourn.		o		
4583	Polypogon elongatus H.B.K.	C	o		
4584	Arundinella hispida (Willd.) Kuntze		o		
4585	Eleocharis ~~capitata R.Br.~~ sulcata (Roth) Nees		o		
4586	" capitata R.Br.		o		
4587	~~Fimbristylis spadicea Vahl~~ Psilocarya [illegible] (Kth.) Nees		o		
4588	Aristida capillacea Lam.		β		
4589	Cyperus ehrenbergianus Kunth		ψ	3/5	Batía Bay, eastern Chiriquí
4590	Cyperus flavescens L.		o	3/2	2 mi. below Boquete
4588a	Manisuris aurita (Steud.) Hitchc.				

√ Examined by Wm. July 1924
— = Recorded on label.

5009a Elaph.
5009b ″

No.	Name		1918	Locality	EMK	Berlin	652	JEB	USNM 3478
5000	Anemia phyllitidis (L.) Sw.	Δ	2/5	Along the Caldera River,	|				√
√ 5001	Dryopteris equestris heterolepis C. Chr.	″		1-2 miles above El Boquete	|			|	√
5002	Polypodium rhodopleuron Kze. Det. William R. Maxon	B			|				√
— 5003	Dennstaedtia adiantoides (H. & B.) Moore	γ			|		|	|	√
5004	Dryopteris concinna (Willd.) Kuntze	☿			|			|	√
5005	Asplenium hastatum Kl.?	✱⊗			|	|		|	√
— 5006	″ praemorsum Sw.	π			|	|	|	|	√
5007	″ auritum Sw. (form) Det. William R. Maxon	π			|				
5008	Elaphoglossum piloselloides (Presl) Moore	π							
5009	Elaphoglossum	γ						|	√
5010	Asplenium auritum Sw. Det. William R. Maxon	π			|				
5011	Polypodium	π			|	|		|	√
5012	Asplenium	γ						|	√
— 5013	Polypodium arcticoides Christ	π			|		| |	|	√
5014	Elaphoglossum auripilum Christ var. auripilum det. L. Atehortúa 1983	✱⊗						|	√
5015	~~Asplenium~~ Polystichum	π			|				
— 5016	Loxogramme salvinii (Hook.) Maxon	π						|	√
5017	Polypodium	π			|	|	|	|	√
√ 5018	Asplenium auritum Sw.	π			|	|	|	|	√
— 5019	Polypodium aureum L.	π			|	|	|	|	√
5020	Elaphoglossum ~~Dryopteris~~ ? resinifera (Desv.) Weatherby ~~panamensis (Presl) C. Chr.~~	✱γ						|	√
— 5021	Polypodium furfuraceum Schl. & Cham.	⊗			|	|	| |	|	√
5022	~~Elaphoglossum~~ Polypodium	π			|			|	√
— 5023	Cheilanthes intramarginalis (Kaulf.) Hook.	π			|	|	| | |	|	√
5024	Polypodium	π			|			|	√
— 5025	Asplenium auritum Sw.	⊗			|		|		
5026	Polypodium	π			|			|	√
5027	Trichomanes montanum Hook.	⊗			|	|			
5028	Selaginella cuspidata	π			|				
5029	Polypodium	B							
5030	Elaphoglossum auripilum Christ var. auripilum det. L. Atehortúa 1983	π			|	|	|	|	√

√ = Checked from USNM Record Books
181, 183, 188, 206

JEB annotated

- 5031	Polypodium rhodopleuron Kunze	π		
- 5032	" angustifolium	π		
x̄ 5033	Polypodium phyllitidis L.?	π		
- 5034	" crassifolium L.	π		
5035	Didymochlaena truncatula (~~Sw.~~) Urban	γ		
5036	Diplazium subsylvaticum Christ?	γ		
5037		⊕		
5038	Diplazium subsylvaticum Christ?	⊕		
5039	Polypodium serpentinum "	⊕		
- 5040	Dennstaedtia grossa Christ	γ		
5041	Pteris biaurita	γ		
5042	Diplazium aff. lonchophyllum Kze.	γ		Det. William R. Maxon
5043	Dryopteris colombiana C. Chr.	γ		
- 5044	D. " colombiana C. Chr.	γ		
- 5045	Equisetum bogotense H.B.K.	⌒		
- 5046	Trichomanes capillaceum L.	⊗	2/6	
5047	" kunzeanum Hook.	⊗		
- 5048	Hymenophyllum microcarpum Desv.	⊗		
- 5049	Asplenium harpeodes Kze. (R)	⊗		
√ 5050	Diplazium neglectum (Karst.) C.Chr.	Σ		
- 5051	Asplenium harpeodes Kze.	⊗		
- 5052	" dissectum Sw.	⊗		
5053	Dryopteris n.sp.	Σ		
5054		wr		
5055	Dryopteris sanctiformis C.Chr.	wc		Det. William R. Maxon
- 5056	Filix fragilis (L.) ~~Gilib.~~ Underw.	wc		
√ 5057	Dryopteris chiriquina C. Chr.	Σ		
- 5058	Diplazium carnosum Christ	Σ		
5059	Polystichum muricatum (L.) Fée	Σ		Det. William R. Maxon
5060	Dryopteris n.sp.	Σ		
5049a	Asplenium hastatum Kl., sens. lat.			Det. William R. Maxon

No.	Name	Mark	Determination	Date	Locality	Tally 1	Tally 2	Check	Other
5061		Σ ⊗				1			
5062	Asplenium rutaceum Mett.? (R)	⊗	Det. William R. Maxon			1			||
5063	Hymenophyllum myriocarpum Hook. (R)	⊗				1	1	✓	||
5064	" plumosum Kaulf.	⊗				1			
5065	Elaphoglossum	⊗				1	1	✓	
5066	Hymenophyllum intercalatum Christ	⊗				1			
5067	Asplenium pteropus Kaulf. var?	⊗	Det. William R. Maxon			1		—	
5068	"	WC							
5069	Dryopteris limaensis (Christ)?	Σ	Det. William R. Maxon				1	✓	
5070	" equestris var. heterolepis C. Chr.	Σ	Det. William R. Maxon			1		✓	|| Mo
5071	Asplenium pteropus Kaulf. (var.?)	⊗	Det. William R. Maxon					—	Mo *
5072	Cyathea aureonitens ~~Cav.~~ Christ	Σ				1	1	✓	
5073	Diplazium subsylvaticum Christ	"	Det. William R. Maxon					—	
5074	~~Lomaria~~ Blechnum schiedeanum (~~Presl~~ Hieron.)	"	"			1	1	✓	
5075		⊗							
5076	Polypodium ~~falcoideum~~ Kuhn	"				1			
5077	Polytaenium lineatum (Sw.) Desv.	"				1	1		
5078	Hymenophyllum polyanthos Sw.	"				1	1	✓	
5079	Vittaria filifolia Fée	"				1			
5080	Botrychium cicutarium (Sav.) Sw.	Σ				1	1	✓	||
5081	Polypodium aureum L. var.	⊗	Det. William R. Maxon					—	*
5082	Asplenium solmsii Baker	Σ		2/6	Dense forest, near Mormich plantation	1 ①	1	✓	||||
5083	Diplazium werckleanum Christ	"				1	1	✓	
5084	Polystichum muricatum (L.) Fée	"					1	✓	
5085	Dryopteris ~~diplazioides (Desv.) Urban~~ kunthiana (Presl) Maxon	"					1	✓	
5086	Polystichum	WC					1	✓	
5087	Dryopteris columbiana C. Chr.	Σ	Det. William R. Maxon				1	✓	
5088	" cheilanthoides (Kunze) C. Chr. (C)	"				1	1	✓	
5089	Asplenium monanthes L. f.	"				1	1		
5090	Polystichum muricatum (L.) Fée	"				1	1	✓	
5074a.	Struthiopteris exaltata (Fée) Broadh.?					1		✓	

No.	Name			Locality
5091	Didymochlaena truncatula (Sw.) J. Sm.	Σ	2/6	
x5092	Polypodium aureum L.	γ	Mrs. T. R. Common	Iglesia Boquete, 1400 m.
5093	Asplenium serra Langsd. & Fisch.	"		
5094	" sanguinolentum Kze.	"		
5095	Dennstaedtia obtusifolia (Willd.) Moore	"	E.R.C.	El Boquete
5096	Cyathea divergens Kunze (Photo)	Σ	2/8	Giffens Trail, Horqueta Mts. 1675-1735 m.
5097	Elaphoglossum	"		
x5098	Polypodium falcoideum Kuhn	⊗		
5099	Polypodium plebeium S. & C.	"		
5100	"	"		
5101	Nephrolepis pendula (Raddi) J. Sm.	Σ		
√5102	~~Polypodium~~ Pleuropodium angustifolium (Sw.) Fée	⊗		
√5103	Vittaria filifolia Fée	"		
5104	Dryopteris ampla subelygopteris (Christ) C.Chr.	Σ		
5105		⊗		
5106	Polypodium lanceolatum var. complanatum Weatherby	"	Det. William R. Maxon	
5107	" " " " "	"	2/8 "	Cerro de Pelona, 1750 m.
5108	Trichomanes pyxidiferum L.	"		
5109	Adiantum pulverulentum L.	γ		
x5110	Asplenium abscissum Willd.	γ		
5111	" laetum Sw.	γ		
5112	" auritum Sw. (form) Det. William R. Maxon	Δ		
√5113	Trichomanes montanum Hook.	⊗		
5114	" "	"		
5115	Polypodium delicatulum M. & G.	"		Valley of the Rio Quebrada
5116	Dryopteris denticulata (Sw.) Ktze.	Σ		
5117	Elaphoglossum	"		
x5118	Dryopteris hemsleyana (Baker) C.Chr.	"		
5119	Polybotrya osmundacea H. & B.	"	Det. William R. Maxon	
5120		"		

No.	Name	Notes	Date	Locality
√5121	Dryopteris ampla subdryopteris (Christ) C. Chr.		7/8	Valley of the Rio Quebrada 1650 m.
5122	Polystichum ~~muricatum (L.) Fée~~ fournieri A. R. Smith			
√5123	Stenochlaena latiuscula Maxon			
5124	Dryopteris			
×5125	~~Lomaria~~ Struthiopteris exaltata (Fée) Broadh.?			
5126	Struthiopteris maxonii Broadh.			
(5127	Diplazium costaricanum C. Chr.			
5128				
5129	Asplenium theciferum (H.B.K.) Mett.			
5130	Trichomanes montanum Hk.	(R)		
5131	Trichomanes hymenophylloides v. d. B.			
5132	" radicans Sw.	Det. William R. Maxon		
5133	Selaginella martensii Spring			
5134	Trichomanes hymenophylloides v. d. B.	(R)		
5135	Dryopteris concinna (Willd.) Kuntze			
5136	"	(C)		
5137	Hypolepis stuebelii Hieron.	Det. William R. Maxon	New to Panama!	
5138	Selaginella costaricensis Hieron.		7/9	Valley of the Rio Piedra[?] 1525–1550 m.
5139				
5140				
×5141	~~Lomaria~~ Struthiopteris maxoni Broadh.			
×5142	Polypodium sphenodes Kze.			
5143	Asplenium miradorense Liebm.	Det. William R. Maxon		
5144	Dryopteris atrogrisea C. Chr.			
5145	Marattia chiricana Maxon			
5146				
5147	~~Saccoloma~~ Adiantum kalbreyeri ~~Bak.~~ C. Chr.			
5148	Polypodium ~~frutescens~~ strigosum Maxon & Weatherby			
5149	Lycopodium setaceum Lam.			
5150	Polypodium duale Maxon			

5151	Dryopteris atrogrisis C. Chr.	2/9	Piamasta Valley 1525-1600m.
5152	Diplazium urticaefolium Christ		
5153	Scoliosorus ensiformis (Hook.) Moore		
5154	Asplenium radicans L.		
5155	~~Antrophyum~~ Polytaenium brasilianum (Desv.) Bened.	2/10	
5156	Hemitelia arachnoidea (Underw.) Maxon Det. William R. Maxon		
5157	Trichomanes ~~speciosum~~ [rupestre] (Raddi) v.d.B.		
5158	Polypodium not identifiable		
5159	~~Stigmatopteris~~ Dryopteris contracta (Christ) C.Chr. Det. William R. Maxon		
5160	Trichomanes rigidum Sw.		
5161	~~Dryopteris~~ Saccoloma inaequale (Kze.) Mett.		
5162	Hemitelia arachnoidea (Underw.) Maxon	"	
5163	Polybotrya alfredii Grady det. R. Moran 1984		
5164	Polybotrya " " " " " "		
5165	~~[illegible]~~ ~~Trichomanes~~ plumbeum Christ (R)		
5166			
5167			
5168			
5169	Asplenium auritum Sw.	2/11	Holcombe Trail, Valley of Rio Caldera, 6-10 mi. above Lino Boquete, 1400-1600m.
5170	Elaphoglossum		
5171	Polypodium		
5172	Equisetum bogotense H.B.K.		
5173	Phanerophlebia juglandifolia (H.&B.) J.Sm.		
5174	Adiantum tetraphyllum H.&B. (sens.lat.)		
5175	Dennstaedtia [distenta] ~~mexicana~~ [(Kunze)] ~~(Bosch)~~ Moore		
5176	Trichomanes hymenophylloides v.d.B.		
5177	Diplazium costaricanum C.Chr.		
5178	Polystichum muricatum (L.) Fée		
5179	Elaphoglossum		
5180	Elaphoglossum		

No.	Name	Det.	Date	Locality	Remarks
5181	Asplenium serra L.		2/11	Holcombs trail, do.	
5182	Polypodium				
5183	Dryopteris nervosa (Kl.) C. Chr.				
5184	Pteris coriacea Desv.	Det. William R. Maxon			
5185	Pteris ~~popo~~ podophylla Sw.				
5186	Diplazium ~~costaricanum~~ ~~carnosum~~ costaricanum C. Chr.				
5187	" hians Kze.	Det. William R. Maxon			
5188	" costaricanum C. Chr.				
5189	" carnosum Christ.				
5190	Dryopteris christensenii Christ				
5191	Dicksonia gigantea Kl.	Det. William R. Maxon			
5192	Dryopteris sactiformis C. Chr.				
5193	Adiantum andicola Liebm.				
5194	Polypodium induens Maxon				
5195	" lunula Christ				
5196	" ~~suspensum L.~~				
5197	" suspensum L.				
5198	Marattia chiricana Maxon				
5199	Histiopteris incisa (Thunb.) J. Sm.				
5200	Alsophila quadripinnata (Gmel.) C. Chr.				
5201	~~Lomaria~~ Blechnum sessilifolium (Kl.) C. Chr.?	Det. C.V. Morton / Det. William R. Maxon		Det. C.V. Morton	
5202	Polybotrya osmundacea H.&B. (R)	Det. William R. Maxon		do. = P. alfredii Brade 8-10 mi. above	
5203	Elaphoglossum			Lino Boquete	
5204	Pteris flavinervata Fée (det. Maxon)			1400-1550 m.	
5205	Dryopteris				
5206	Diplazium costaricanum C. Chr.				
5207	Dicksonia gigantea Kl.	Det. William R. Maxon			No
5208	Dryopteris ~~leprieurii palmensis (Christ) C. Chr.~~ densisora C. Chr.			Thelypteris leprieurii var. subcostalis A.R. Smith det A.R.S. 1976	
5209	Trichomanes ~~kunzeanum~~ var. radicans (Hook.) Hieron.				
5210	" hymenophylloides v.d.B. (R)				
5202a	Tectaria dilacerata (Kze.) Maxon	Det. William R. Maxon			

No.	Name	Determination	Date	Locality
5211	Dryopteris subincisa (Willd.) Urban		2/14	El Boquete (Lino) 1400 m.
5212	Tectaria dilacerata (Kunze) Maxon			
√5213	Dryopteris equestris heterolepis C. Chr.			
·5214	Dennstaedtia grossa Christ			
5215	Polypodium phyllitidis L.			
5216	Dryopteris patens (Sw.) C. Chr.			
5217	Equisetum bogotense H.B.K.			
5218	Dryopteris concinna (Willd.) Kuntze			
×5219	Asplenium abscissum Willd.			
5220	Anisosorus hirsutus (L.) Trev.			
5221				
5222	Diplazium subsylvaticum Christ	Det. William R. Maxon	2/15	Holcombe Trail, 10 mi. above Lino Boquete 1525–1650 m.
5223	Dryopteris ~~leprieurii palmensis (Christ) C. Chr.~~ densisora C. Chr. → Thelypteris leprieurii var. subcostalis A.R.Smith det. ARS 1976			
5224	Pityrogramma tartarea (Cav.) Maxon			
·5225	Trichomanes capillaceum L.			
5226	Hymenophyllum ~~intercalatum Christ~~ fragile	Det. C. V. Morton		
5227	Asplenium dissectum Sw.			
5228	Polypodium			
5229	Dryopteris atrovirens C. Chr.			
5230	" ~~leprieurii palmensis (Christ) C. Chr. (?)~~ densisora C. Chr.			Thelypteris leprieurii var. subcostalis AR.Sm. det. ARS 1976
5231	Hemitelia subglabra (Underw.) Maxon?	Det. William R. Maxon		
5232				
5233	Asplenium hastatum Kl. sens. lat.	Det. William R. Maxon		
5234	Diplazium ~~s~~ceratolepis Christ			
5235	Hypolepis rigescens (Kze.) Fée	"		
5236	Hymenophyllum fucoides Sw.			
5237	Asplenium			
5238	Asplenium rutaceum Mett. (R)	Det. William R. Maxon		
5239	Elaphoglossum			
5240	Cyathea suprastrigosa (Christ) Maxon			

No.	Name	Determination / notes	Date	Locality	Remarks
5241	Rhipidopteris peltata (Sw.) Schott		7/15	Holcomb Trail, 10 mi. above Bajo Boquete 1525-1650 m.	
5242	Cyathea brunei Christ	Det. William R. Maxon			
5243	Polypodium				
5244	Elaphoglossum				
5245					
5246	Trichomanes cf texinicum Kze.	Det. William R. Maxon			*
5247	Trichomanes hymenophylloides v.d.B.				
5248	Hemitelia subglabra (Underw.) Maxon	Det. William R. Maxon			Mo
5249	Polypodium induens Maxon	M.a.C.	"	Dexter Trail, 1500 m.	*
5250			2/17	Holcomb Trail, near Camp I, 1650 m.	
5251	Selaginella martensii Spring				
5252	Dennstaedtia ~~glo~~ globulifera (Poir.) ®				
5253	Polypodium				
5254	Squamidium nigricans (Hook.) Broth.	det Bartr. ~~Det. William R. Maxon~~			
5255	Asplenium ferulaceum Moore				
5256					
5257	Polypodium loriceum L.				
5258	Dryopteris densisora C. Chr.	Thelypteris leprieurii var. subcostalis AR. Smith det ARS. C. Chr.	2/17	Cordillera above Camp I, along old hunting trail 1650-1800 m.	
5259		Diplazium sprucei (Bak. in Hook. + Bak.) C. Chr. det DBL 1978 (76)			
✓5260	Saccoloma inaequale (Kze.) Mett.				
5261	Polybotrya osmundacea Mett.	Det. William R. Maxon			*
5262	Elaphoglossum auripilum Christ var. auripilum	det. L. Atehortúa, 1983			
5263	Trichomanes kunzeanum (Hook.) Hieron var. radicans				
5264	Hymenophyllum hemipteron ~~Christ~~ Rosenst.				mo.
5265	Hymenophyllum polyanthos Sw.				
5266	Alsophila quadripinnata (Gmel.) C. Chr.				
5267	Saccoloma werckleï Christ				
5268	Hymenophyllum (aff. microcarpum Desv.)				
5269	Prionodon densus (Sw.) C M				
5270	Hymenophyllum hemipteron Rosenst.				

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No.	Name		Locality
5271	Hymenophyllum polyanthos Sw.	2/17	Cordillera above Camp I
5272	Hymenophyllum (near microcarpum Desv.)		1650-1800 m.
5273	" trichophyllum n. sp.? (R)		
5274			
5275	Dryopteris ~~leprieurii palmensis (Christ)~~ densisora C. Chr.		Thelypteris leprieurii var. subcostalis A.R.Sm. det. ARS 1976
5276	Elaphoglossum		
5277	Elaphoglossum auripilum Christ var. auripilum det. L. Atehortúa, 1983		
×5278	~~Lomaria~~ Struthiopteris exaltata (Fée) Broadh.?		
5279	Trichomanes lucens Sw.		
5280	Hymenophyllum hemipteron Rosenst.		
5281	Phyllogonium fulgens gracile Ren. & Card.		
5282	Hymenophyllum ~~intercalatum Christ~~ (R) fragile	Det. C. V. Morton	
5283	~~Hymenophyllum~~ Trichomanes ~~hymenophylloides~~ (R) " v. d. B.		"
5284	~~Polypodium~~ Enterosora ~~campbellii Baker~~ spongiosa Maxon ~~sp. nov.~~		"
5285	Alsophila quadripinnata (Gmel.) C. Chr.		
5286	Elaphoglossum	"	" 1800-2000 m.
5287	Polypodium limula Christ		
5288	" limula Christ		
5289	Polypodium subtile Kunze		
5290	" chiricanum Maxon		
5291	" sphenodes Kze.		
5292	Meteorium illecebrum (C.M.) Mitt.		
5293	5346 = 5360 Dryopteris killipii Chr. & Maxon		
5294	Hemitelia chiricana Maxon? Det. William R. Maxon		
5295	Asplenium radicans L.		
5296	"		
5297	Hemitelia chiricana Maxon Det. William R. Maxon		
5298	Elaphoglossum auripilum Christ var. auripilum det. L. Atehortúa, 1983		
#5299	Dryopteris supranitens Christ		
5300	Polypodium taxifolium L.		
5289a	" mitchellae Baker (Vela..ff)		

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No.	Name	Date	Locality	Elevation			
5301	Polypodium moritzianum Maxon	2/17	Cordillera			1	✓
5302				1800-2000 m.			
5303	Polypodium						
5304	Polypodium suprasculptum Christ				1 (1) |||	1	✓ ||||
5305	Trichomanes rigidum Sw.					1	✓
5306	~~Culcita~~ coniifolia (Hook.) Maxon	2/18	"	1900-2100 m.	(1) |||		|||
5307	Polypodium sp				|||	1	✓ |||
5308	Dennstaedtia consanguinea (Kl.) Moore?					1	✓
5309	Asplenium serra L. & F. Det. William R. Maxon				1		—
5310	Polypodium caucanum Hieron. (! Maxon)						
5311	" sessile Fée "						—
5312	Dicranoloma meterioides R.S.W.						
5313							
5314	Cyathea aff. maxoni Christ Det. William R. Maxon					1	✓
5315	Polypodium alfarii Donn. Sm.					1	✓
5316	Lycopodium wattonianum Maxon				1		—
×5317	~~Lomaria~~ Struthiopteris exaltata (Fée) Broadh.					1	✓
5318	Dryopteris rudis (Kze.) C. Chr.				1	1	✓
5319	(Flower = 3643)				1		
5320	Hymenophyllum elegantulum v. d. B.				1	1	✓
5321	Polypodium (juvenile; not indent.)		"	2100-2150 m.			
√5322	Elaphoglossum erinaceum (Fée) Moore					1	✓
5323	Hymenophyllum aff. microcarpum Desv. Det. William R. Maxon				1		—
5324	Polypodium podocarpum Maxon				1		
5325	Polypodium christianum Maxon					1	✓
5326	~~Culcita coniifolia (Hook.) Maxon~~					1	✓
5327	Dryopteris patula (Sw.) Ktze.					1	✓
5328	Culcita coniifolia (Hook.) Maxon				1	1	✓
5329	Dicranoloma meterioides R.S.W.						
5330	Polypodium subtile Kze.						

No.	Name	Det. / date	Locality			
5331	Polypodium (near P. nitchellae Baker)	2/18	Cordillera, 2100-2150 m.	1		
5332	Trichomanes crinitum Sw.			1	1	✓
5333	~~Asplenium~~ Asplenium serra L. & F.	Det. William R. Maxon				— *
5334	Polypodium leucosticton Kunze		near Camp A, 1625 m.		1	
5335						
5336	Dryopteris near biserialis (Baker) C. Chr.	Det. William R. Maxon 2/19	Cordillera, 1675-1800 m.	1	1	✓
5337	Dryopteris euchlora inaequans C. Chr.				1	✓
5338	Dryopteris " "			1 (1)	1	✓
5339	Asplenium radicans L.					
5340	Hymenophyllum ~~caudatellum Christ~~ elegans	Det. C. V. Morton		1	1	✓
5341	Hymenophyllum polyanthos Sw.				1	✓
5342	~~Dennstaedtia~~ Saccoloma inaequale (Kze.) Mett.			1	1	✓
5343	Elaphoglossum				1	✓
5344	~~Dryopteris~~ longicaudata (Liebm.) Maxon	Det. William R. Maxon	5344a Thelypteris grandis var. pallescens (C. Chr.) A.R.Sm. det A.R. Smith 1978	1		✓ *
5345	~~Polypodium~~ Culcita coniifolia (Hook.) Maxon	Thelypteris glandulosa var. longipilosa A.R.S. det ARS 1976		1		✓ *
5346	~~Polystichum~~ Dryopteris killipii Chr. & Maxon				1	✓
5347	Hemitelia chiricana Maxon	Det. William R. Maxon	" 1800-1900 m.		1	✓
5348	Dryopteris denticulata (Sw.) Ktze.		(summit)	1	1	✓
5349	Polystichum				1	✓
5350	Hemitelia contigua (Underw.) Maxon	Det. William R. Maxon			1	✓
5351	Hymenophyllum fucoides Sw.				1	✓
5353	Polypodium induens Maxon					
5352	Polypodium limula Christ					
5354	Dryopteris ~~diplazioides (Desv.) Urban~~ Linkiana (Presl.) Maxon			1	1	✓
5355	Trichomanes lucens Sw.	Det. William R. Maxon				— *
5356	Polypodium alfarii Donn. Smith				1	✓
x 5357	Asplenium radicans L.			(1)	1	✓
5358	Polypodium				1	✓
5359	~~Dryopteris~~ killipii Chr. & Maxon (1936)		1900 (summit) —	1		✓
5360	~~Polypodium [illegible] Christ~~ sphenodes Kze. Ⓒ		1950 ~~[illegible]~~		1	✓
5347a.	Dryopteris euchlora inaequans C. Chr.				1	✓

No.	Name	Date	Locality
5361	Polypodium myriolepis Christ	2/19	Cordillera, Summit to
5362			(Atlantic side)
5363	Elaphoglossum		(Bocas del Toro)
5364	"		
5365	Polypodium caucanum Hieron. (!EVK)		
5366	Hymenophyllum aff. microcarpum Desv. Det. William R. Maxon		
5367	Lycopodium clavatum L. var.!! Det. William R. Maxon		
✓5368	Vittaria filifolia Fée		" Summit to 1075 m.
5369	Elaphoglossum auripilum Christ var. auripilum det. L. Atehortua 1983		(Pacific side)
5370	Elaphoglossum		
5371	Dryopteris		Borders of woods near Camp Glus
5372	~~Asplenium~~		~~Humid~~ Forest " "
5373	Polypodium myriolepis Christ		On fallen logs, clearing " "
5374	" rhodopleuron Kze.		"
5375	" myriolepis Christ		"
5376	" angustifolium L. ~~Sw.~~	2/22	Rio Piamacha, 1550-1650 m.
5377	Dryopteris atrogrisis C. Chr.		
5378	Elaphoglossum		
×5379	Polypodium sphenodes Kze.		
5380	~~Asp. Diplaz.~~ Asplenium plumbeum Christ Det. William R. Maxon		
5381	Asplenium dissectum Sw.		
5382	~~Diplazium~~ ~~cen.~~ Dryopteris diplazioides (~~Desv.~~ Urban) Linkiana (Presl.) Maxon		
5383			
/5384	Dicranopteris bifida (Willd.) Maxon		
5385	Saccoloma inaequale (Kze.) Mett.		
5386	Polybotrya alfredii Brade det. R. Moran 1984		
5387	~~Stigmatopteris~~ Dryopteris allocoptera (Kze.) C. Chr. Det. William R. Maxon		
5388	Lycopodium clavatum L. var.		
5389	Polypodium angustifolium Sw.		
5390	Polypodium myriolepis Christ		

No.	Name	Date	Locality	Notes
5391a.	Hemitelia indet.			
5391	Hemitelia grandis Maxon	2/22	Piarnata 1550-1650 m.	J.E.B. Ms.
5392	Dryopteris			
5393	Cyathea werckleana Christ			
√5394	Diplazium harrisoni (Baker) C. Chr.			
5395	Hymenophyllum ~~intercalatum Christ~~ fragile			Det. C. V. Morton
√5396	Trichomanes montanum Hook.			
5397	Hymenophyllum microcarpum Desv.			
5398				
5399	Hymenophyllum asplenioides Sw.			
5400				
5401	Polypodium Indeterminable			
5402	Selaginella			
5403	Polypodium			
5404	Hymenophyllum subrigidum Christ (mostly)			
5405	Lycopodium taxifolium Sw.?			
5406		2/23	Chiriqui Volcano (J. W. Watson coll.)	
5407	Elaphoglossum		El Boquete, 1300 m.	(R)
5408	Pityrogramma ferruginea (Kze.) Maxon			(1)
5409		2/24	Piedra de Lino, 1400-1600 m.	
5410	Polystichum			
5411	Lycopodium taxifolium Sw.			
5412	Selaginella cuspidata			
5413	Polypodium rhodopleuron Kze.			
5414	" ~~simulans~~ Christ polypodioides (L.) Watt.	2/25	Rio Panduro Valley, 1500 m.	
5415	" delicatulum M. & G.			
5416	Elaphoglossum			
5417	Polypodium polypodioides (L.) Watt.			
5418	" loriceum L.?			
5419	"			
5420	" myriolepis Christ			*
5399a	Hymenophyllum intercalatum Christ			

5421	Polypodium lanceolatum complanatum (?)	2/25	Roballo trail, from Rio
5422	" fraxinifolium Jacq.		Piarnasta towards Cordillera
5423			1600-1700 m.
5424	Polypodium		
5425	~~Lomaria~~ Blechnum pteropus (Kze.) Mett. (det CVM)		
5426	Asplenium plumbeum Christ ~~salicifolium L.~~		
√5427	Leptochilus ~~torresii Maxon~~ brodeanum Rosenst.		
5428	Elaphoglossum		
5429	Polybotrya osmundacea Mett. Det. William R. Maxon		= P. alfredii Brade det. Moran 1984
5430			
×5431	Polypodium lycopodioides L.		
5432			
5433	Lycopodium contiguum Kl. ?	2/22	Chiriquí Volcano, 3600 m. J. W. Watson
5434	Cystopteris fragilis (L.) Bernh. Det. William R. Maxon	2/26	Aguacate Camp. Chiriquí
5435	Dryopteris sanctiformis C. Chr.		Volcano, 2300 m.
5436	Equisetum bogotense HBK.		
5437	Phanerophlebia macrosora (Baker) Und.		
5438	Asplenium sessilifolium Desv.		
5439	Asplenium monanthes ~~Sw.~~ L. f.		
5440	Anogramma leptophylla (L.) Link Det. William R. Maxon		
5441	Asplenium commutatum Mett.		
5442	Dryopteris paleacea (Sw.) C. Chr.		
√5443	Cheilanthes lendigera (Cav.) Sw.		
5444	~~Asplenium~~ monanthes L. f.		Camp Cañassa, Chiriquí
5445	Polystichum ~~muelleri~~ (Mett.) Fourn. (det Maxon)		Volcano, 2500 m.
5446	Elaphoglossum squamipes (Hook.) Moore		
√5447	Pteris muricata Hook.		
5448	Polypodium		Trail up volcano, 2550 m.
5449			Potrero Camp, 2800 m.
√5450	Elaphoglossum squamipes (Hook.) Moore		2800-3100 m.

Ent. 2/28/33

* = Loaned USNM to name July 1930.

No.	Name	Date		Locality	
5451	~~Polytrichum~~ Pogonatum robustum Mitt. (Det. Bartram)	2/27		Dense, dry woods above Potrero Camp, 2500-3100 m.	
5452	Campyloneuron angustifolium Sw. (sens. lat.)				*
5453	Asplenium fragrans Sw.				
5454	[illegible]				
5455	Polystichum muricatum (L.) Fée				
5456	Lycopodium hippurideum Christ				
5457					
5458	Polypodium moniliforme Lag.			Summit of Volcano, 3600 m.	
5459	Polystichum paleaceum (Kze.) Sweatbury				Mo.
5460	Elaphoglossum				
5461	" revolvens (Fée) C. Chr.				
5462	Dryopteris cf. Thelypteris supranitens (Christ) Reed det. OBL 1977			3100 m.	*
5463	~~Polypodium~~ moniliforme Lag. vel aff. Det. William R. Maxon			3600 m.	Mo.
5464	Polypodium pilosissimum M. & G. (sens. lat.)				
5465	Phanerophlebia macrosora (Baker) Und.	2/28		Aguacate Camp, 2300 m.	
5466	Asplenium				*
5467	Polystichum				
5468	Phanerophlebia macrosora (Baker) Und.				
5469	Asplenium castaneum S. & C.	2/27		Summit of Volcano, 3600 m.	
5471	Asplenium monanthes Sw.			3000 m.	
5470	Polypodium (Undetermined ... why?				*
5472	Polypodium delicatulum M. & G.			2600 m.	
5473	~~Dicranopteris~~ bifida (Willd.) Maxon	2/28	Mo.	Rio Piedra Masta, 1450 m.	
5474	Pteris quadriaurita Retz. Det. William R. Maxon			Along Rio Caldera, below Boquete (Lino) 1250 m.	
x5475	Asplenium auritum ~~macilentum~~ (Kze.)	3/1			
√5476	Alsophila chnoodes Christ				
5477	Equisetum giganteum L. (Det. Schaffn.)				
5478	" " " "				
5479	Lycopodium cernuum L.				
5480	Elaphoglossum				
5471a.	Asplenium castaneum S. & C.				

No.	Name	Det.	Date	Locality	Marks
5481	Dryopteris gongylodes (Schk.) Kuntze		3/2	Below Boquete, 1250 m.	| 1 (1) ||| 1 ✓ ||||
5482	Dryopteris bangii C. Chr.	C. Chr.			| | 1 ✓
5483	Osmunda regalis L.				| 1 (1) 1 ✓
5484	Lycopodium reflexum Lam.				| 1 / 1 ✓
5485					
5486	Rhipidopteris peltata (Sw.)				|
5487	Dennstaedtia bipinnata (Cav.) Maxon	Det. William R. Maxon	3/3	Along Rio Caldera, above	| 1 ✓
5488	Phanerophlebia juglandifolia (H. & B.) J. Sm.			Boquete, 1300 m.	| 1 ||| 1 ✓ ||
5489	Asplenium auritum Sw. (form)	Det. William R. Maxon			/ —
5490	Polypodium				| 1 ✓
5491	Blechnum occidentale L.				| 1 ✓
5492	Plecosorus speciosissimus (R. Br.) Moore		2/27	Summit Chiriqui Vol. 3600 m	| 1 1
5493	Dennstaedtia globulifera (Poir.) Hieron.	Det. William R. Maxon	3/3	Below El Boquete	| —
5494	Polypodium trifurcatum L.		2/18	Cordillera above Rio Caldera 1800 m.	!
5495	Hymenophyllum subrigidum Christ		"	Near Camp I, 1600 m	| ✓ |
5496	Hymenophyllum elegantulum v.d. B. vel aff.		"	"	| 1 ||| 1 JEB 1 |||| Hao.
5497	Not destroyed =5343 in part		2/18	Humid forest above Camp I. 1800 m	1
5498			~~2/19~~	" " "	x
5499	Polystichum			Rio Caldera	
5500	Pteris (5204a)		2/12	Near Fino Boquete	(
5501	Dryopteris (= 5124 in part, U.S. Nat. Herb. sheet)			"Rio Quebrada" 2/8	✓
5502	" = 5136 " "			"	✓
5503	Dryopteris equestris var. heterolepis C. Chr.	Det. William R. Maxon		" = 5124 in part (U.S. Nat. Herb. sheet) [illegible]	✓

No.	Name	Date	Locality		
5991					
5992					
5993	Antennaria		Portage		
5994	Linaria				
5995	Artemisia				
5996	Polygonum				
5997	Plantago				
5998	Panicum	7/25/18	Camp Dix		
5999	Carex	7/31/18	Central Park, N.Y.		
6000					
6001					
6002					
6003					
6004					
6005					
6006	Hordeum murinum L.	9/18/18	Jonzac, Charente Inf., France		1
6007					
6008					
6009					
6010					
6011					
6012					
6013					
6014	Ceterach officinarum	12/26/18	Angers, M. et L., France	1	
6015	Torentilla	11/1-/18	Roe St. André, Moirband, France		
6016					
6017					
6018					
6019	Euphorbia				
6020	Lomaria spicant				

No.	Name	Date	Collector	Locality	
6021		11/-/18		Roc St. André, France	
6022	Juncus				
6023	Agrostis				
6024	Ranunculus				
6025	Tanacetum				
6026					
6027	Cicutarium				
6028					
6029	Dryopteris				
6030					
6031					
6032					
6033					
6034	Calluna vulgaris				
6035	Erica cinerea				
6036	" tetralix				
6037	Vinca major				
6038	~~Sabatia~~				
6039					
6040					
6041	Sabatia	4/-/19	Coll by Mary B. Francis Baker	Winter Park, Fla.	
6042	Polygala cymosa				
6043	" rugelii				
6044	" lutea				
6045	Andropogon scribnerianus				1
6046	Sporobolus ejunicedus				1
6047	Rynchospora grayi				1
6048	" oligantha				1
6049	" radiflora				
6050	Scleria baldwinii costata				1

No.	Name		1919		Locality	
6051	Rynchospora leptorynchia		Apr.	Meryl.	Winter Park, Fla.	
6052	Rynchospora brachycantha		"	Manais Beha		1
6053	Deschampsia flexuosa (L.) Trin. (HGH)	γ	6/5		Bullhead Pond, Bushnells Basin Monroe Co., N.Y.	
6054	Lysimachia thyrsifolia L.	R	"		Lily Pond, "	
6055	Rust	γ	"		" "	
6056	Alopecurus geniculatus aristulatus	o	"		" "	1
6057	Vaccinium atrococcum (Gray) Heller	γ	"		" "	
6058	Carex muhlenbergii Schkuhr.	T	"		Jaeschke's, near "	
6059	Rubus canadensis	T	"		"	
6060	Carex tonsa (Fern.) Bickn. (! Hermann)	T	"		"	
6061	Silene antirrhina L.	T	"		"	
6062	Bromus hordaceus L.	δ	"		"	1
6063	" " (dwarf)	δ	"		"	
6064	Carex trichocarpa Muhl.	H	"		"	
6065	Scirpus	H	"		"	
6066	Pyrus melanocarpa (Michx.) Willd.	γ	"		Bullhead Pond, "	
6067	Eriophorum viridicarinatum (Engelm.) Fern.	Ω	6/8	! F. J. H.	Mud Pond, Mendon, Monroe Co. N.Y.	
6068	Valeriana	Ω	"		"	
6069	Scirpus	Ω	"		"	
6070	Carex ~~lurida polygama Schkuhr.~~ buxbaumii Wahl. (! HGH)	Ω	"		"	
6071	Scirpus	Ω	"		"	
6072	"	o	"		"	
6073	Festuca elatior L. (Chas.)	o	"		Deep Pond, Mendon	
6074	Eleocharis ~~palustris (L.) R. & S.~~ calva Torr. (! F. J. H.)	v	"		"	
6075	Carex lanuginosa Michx.	v	"		"	
6076	Sanicula	γ	"		Near Kennedy bog, Mendon	
6077	Scirpus planifolius Muhl.	γ	"		"	
6078	Poa compressa L. (Chas.)	γ	"		"	
6079	Carex	γ	"		"	
6080	" cephalophora Muhl.	γ	"		"	
6067a.	Valeriana uliginosa (T. & G.) Rydb.	Ω	"		Mud Pond, Mendon	1

			1919		5	10	15
6081	Arabis canadensis L.	γ	6/8	Near Kennedy bog, Mendon N.Y.			
6082	Rubus	γ	"	"			
6083	Pyrus	γ	"	"			
6084	Festuca obtusa Spreng. (Chase)	γ	"	"			
6085	Sphenopholis nitida (Spreng.) Scribn. (HDH)	γ	"	"			
6086	Asclepias quadrifolia Jacq.	γ	"	"			
6087	Scheuchzeria palustris L.	Φ	"	Kennedy bog, "			
6088	Hierochloe odorata (L.) Wahlenb. (HDH)	H	"	Near Deep Pond, "		1	
6089	Glyceria nervata Willd.	v	"	" "			
6090	Carex diandra ramosa (Boott) Fernald	v	"	"			
6091	Viola nephrophylla Greene	Ω	"	Mud Pond, Mendon			
6092	Carex sterilis Willd.	Ω	"	"			
6093	Luzula	Ω	"	"			
6094	Carex granularis Muhl.	Ω	"	"			
6095	" rostrata Stokes	K	6/9	Long Pond, Manitou, Monroe Co.			
6096	" ~~houghtonii ×~~ lanuginosa Michx. (? Ham...)	Ψ	"	"			
6097	" stipata Muhl.	K	"	"			
6098	Scirpus americanus Pers.	K	"	"			
6099							
6100	Carex laxiflora intermedia Boott (HDH)	~	6/11	Seneca Lake, near Geneva, N.Y.			
6101	Poa palustris L. (Chase)	v	"	"			
6102		v	"	"			
6103	Carex lurida Wahlenb.	v	"	"			
6104	Myosotis arvensis (L.) Hill (HDH)	ξ	"	Interlaken, N.Y.			
6105	Antennaria plantaginifolia (L.) Richards "	γ	"	Taghannock Falls, N.Y.			
6106	Polygala senega L.	γ	"	"			
6107	Myosotis	γ	"	"			
6108	Antennaria plantaginifolia (L.) Richards (HDH)	γ	"	"			
6109	Festuca octoflora	γ	"	"			
6110	Viburnum pubescens (Ait.) Pursh	γ	"	"			

				1919				5	10	15	
6111	Valeriana officinalis L.	(HDH)	γ	6/11		Taughannock Falls, N.Y.			1		HDH
6112	Vicia villosa Roth		α	"		Candor, N.Y.				1.	
6113	Stellaria graminea L.	(HDH)	α	6/12		Endicott, N.Y.				1.	
6114	Juncus tenuis Willd.		ν	"		"					
6115	Pentstemon hirsutus (L.) Willd.		α	"		Waverly, N.Y.					
6116	Scirpus planifolius Muhl.		ω	"		~~Elm~~ 1 mi. E. of Elmira, N.Y.			1.		
6117	Gillenia trifoliata (L.) Moench	(HDH)	ω	"		"			1 1	1.	
6118	Vicia caroliniana Walt.		ω	"		"					
6119	Phlox subulata L.	(HDH)	ω	"		"					
6120	Danthonia spicata (L.) Beauv.	(Chase)	ω	"		"					
6121	Panicum boscii Poir.		ω	"		"					
6122	Carex stellulata Good.		ω	"		"					
6123	Lysimachia		ω	"		"					
6124	Carex granularis Muhl.		π	6/13		Watkins Glen, N.Y.					
6125	Glyceria nervata (Willd.) Trin.	(Chase)	π	"		"					
6126	Panicum scribnerianum Nash	"	δ	"	P. S. Bright	Pittsford, N.Y.					
6127	" dichotomum L.	"	μ	6/14		Irondequoit Bay, N.Y.					
6128	" ~~praecocius Hitc.~~ ~~villosissimum~~ Nash	"	μ	"		"					
6129	Poa debilis Torr.	"	μ	"		"					
6130	Sporobolus neglectus Nash	(HDH)	μ	"		"					
6131	Sphenopholis nitida (Spreng.) Scribn.	(HDH)	μ	"		"					
6132	Festuca obtusa Spreng	(Chase)	μ	"		"					
6133	Carex cephaloidea L.		μ	"		"					
6134	Triticum vulgare		δ	6/15		Pittsford, N.Y.					
6135	Bromus		δ	"		"					
6136	" secalinus L.		δ	"		"					
6137	Carex vulpinoidea Michx.		ρ	6/19		2 mi. S.W. of Pittsford, N.Y.					
6138	Juncus acuminatus Michx.		ρ	"		"					
6139	Ophioglossum vulgatum L.		β	"		"	1.				
6140	Poa palustris L.	(Chase)	γ	"		"					

6141	Eleocharis calva Torr. (bit. Svenson)	ρ	6/19	2 mi. s.w. of Pittsford, N.Y.
6142	Carex ~~lurida Wahl.~~ retrorsa Schwein. K.K.M.	ρ		
6143	" hystericina Muhl.	ρ		
6144	" lurida gracilis (Boott) Bailey	ρ		
6145	" rostrata Stokes	ρ		
6146	" "	ρ		
6147	" hystericina Muhl.	ρ		
6148	" lurida gracilis (Boott) Bailey	ρ		
6149	" cephalophora Muhl.	γ		
6150	Scirpus lineatus Michx.	ρ		
6151	Carex granularis Muhl.	ρ		
6152	Glyceria nervata (Willd.) Trin. (Chase)	ρ		
6153	Carex lupulina Muhl.	ρ		
6154	" "	ρ		
6155	" comosa Boott.	ρ		
6156	" tribuloides Wahlenb.	ρ		
6157	Oxalis brittoniae Small (H.D.H.)	β		
6158	Carex stellulata Good.	ρ		
6159	Festuca obtusa Spreng. (Chase)	ρ		
6160	Polygonum	β		
6161	Veronica americana Schwein.	ρ		
6162	Galium	γ	6/22	Bergen Swamp, Genesee Co, N.Y.
6163	Salix serissima Fernald	Φ		
6164	Carex oederi Retz	ρ		
6165	" tertinscula	ρ		
6166	Botrychium virginianum (L.) Sw.	γ		1.
6167	Carex leersii	Φ		1
6168	Juncus balticus Willd.	ρ		1
6169	Comandra umbellata (L.) Nutt.	ρ		
6170	Scirpus pauciflorus Lightf.	ρ		1. 1.
6152a.	Carex intumescens Rudge	ρ	6/19	2 mi. S.W. of Pittsford, N.Y.

No.	Name		Date (1919)	Collector	Locality
6171	Valeriana uliginosa (T.&G.) Rydb.	ρ	6/22		Bergen Swamp, Genesee Co., N.Y.
6172	Carex stellulata angustata Carey	ρ	"		"
6173	" eburnea Boott	σ	"		"
6174	" arctata Boott?	γ	"		"
6175	Milium effusum L.	v	"		"
6176	Kust	v	"		"
6177	Samolus floribundus H.B.K.	o	"		"
6178	Oxalis [illegible]	o	"		"
6179	Panicum huachucae Ashe	β	"		"
6180	Festuca capillata Lam. (Chase)	ɧ	"	J.S.B.	Pittsford, Monroe Co., N.Y.
6181	Lapsana communis L.	ɧ	"	"	"
6182	Cyperus filiculmis macilentus Fernald	T	6/23		Jaeschke, Bushnells Basin, N.Y.
6183	Cynosurus cristatus L.	ɧ	6/25	J.S.B.	Pittsford, N.Y.
6184		ɧ	"	"	"
6185	Setaria verticillata (L.) Beauv.	ɧ	6/26	"	"
6186	Festuca elatior L.	Ω	6/27		Oswego, N.Y.
6187	Panicum implicatum Scribn.	β	"		"
6188	Carex communis Bailey	γ	"		"
6189	Lolium perenne L.	ɧ	6/29		Pittsford, N.Y.
6190	Scirpus fluviatilis (Torr.) Gray	⊡	7/4		Sodus Bay, Wayne Co., N.Y.
6191	Bromus inermis Leyss. ! ass				"
6192					"
6193	Carex virescens Muhl.	ψ			"
6194					"
6195	Juncus balticus littoralis	ψ			"
6196	Carex flava L.	ψ			"
6197	~~Carex~~ Cyperus schweinitzii Torr.	ψ			"
6198	Agrostis alba L.				"
6199					"
6200					"

			1919		5	10	15
6201	Potamogeton praelongus Wulf.		7/4	Sodus Bay, Wayne Co., N.Y.			
6202	Potamogeton compressus L.		"	"			
6203	Potamogeton perfoliatus L.	⊙	"	"			|
6204	" ~~natans L.~~ (fide Ogden)	⊙	"	"			|
6205	" pectinatus L.	⊙	"	"			|
6206	" friesii Ruprecht	⊙	"	"	|		
6207	Myriophyllum heterophyllum Michx.	⊙	"	"			|
6208	Ranunculus circinatus Sibth.	⊙	"	"			
6209	Radicula lacustris	⊙	"	"			|
6210	Potamogeton heterophyllus Schreb.	⊙	"	"			
6211							
6212							
6213							
6214							
6215							
6216							
6217							
6218							
6219							
6220							

1002a. Botrychium ternatum intermedium D.C.Eaton — Mt. Marcy
1021a. Phegopteris hexagonoptera (Michx.) Fée — Avalanche

No.	Species		Date	Locality	5	10	15
994	Habenaria fimbriata (Ait.) R.Br.		1917	Wood Farm, No. Elba		1	
995	Spiranthes			"			
996	Cystopteris fragilis			Rainbow Falls, Keene Valley			
997	Epipactis tessalata		7/24	St. Huberts " "			
998	Senecio aureus	Φ	7/28	Amyville			
999	Solidago macrophylla	γ		Indian Pass			
1000	Habenaria dilatata			Marcy Brook trail			
1001	Vaccinium uliginosum	x		Mt. Marcy top			
1002	Prenanthes nana	x		"			
1003	Vaccinium	x		"			
1004	Pyrus	γ		Opalescent trail			
1005	Betula	γ		"			
1006	Dryopteris fragrans	*		Avalanche Lake	1		
1007	Woodsia alpina (Bolton) S.F. Gray	*		"		1	
1008	Cystopteris fragilis	*		Smugglers Notch, VT.			
1009	Galium triflorum	γ		"			
1010	Veronica serpyllifolia	γ		"			
1011	Vaccinium caespitosum?	x		Mt. Mansfield			
1012	Woodsia glabella R.Br.			Smugglers Notch Vt.		1	
1013	Lycopodium annotinum			Mt. Mansfield			
1014	Achillea millefolium roseum			Williamstown, VT.		1	
1015	Desmodium dillenii			Claremont, N.H.			
1016	Polygala ambigua			"			
1017	Desmodium			"			
1018	Arenaria groenlandica			Mt. Mansfield; "highest spec. in Vt."			
1019	Solidago			Mt. Marcy			
1020	Utricularia cornuta			Otter Lake, Herkimer Co.			
1021	Spiranthes			White " "			
1022	Pyrola			" " "			
1023	Chimaphila umbellata			" "			
1024	~~Spiranthes~~ Kalmia polifolia L.			"Lake Tear" ~~Sylvan Beach~~			
1025	~~Pyrus~~ ~~Woodsia glabella~~			Marcy Brook trail, 3500 ft.			
1026	Triglochin			Junius			
1027	Ambrosia artemisiifolia			Lake Colden			

No.	Name	Date	Locality
~~1057a~~	~~Salix cordata~~	~~8/22/15~~	~~Iron. Bay~~
1028	Hypericum virginicum L.	8/18/15	Mt. Pond, 4th Lake
1029	Oxalis acetosella L.		
1030	Dalibarda repens		
1031	Amelanchier	8/19/15	Bald Mt "
1032	Eriocaulon septangulare		Mt. Pond
1033	Smilacina trifoliata (L.) Desf.		Agate Swamp
1034	Trillium undulatum Willd.		Cary Pond
1035	Aster nemoralis Ait.		Mt. Pond.
1036	Utricularia cornuta Michx.		"
1037	Rubus idaeus aculeatissimus		Rondaxe Lake
1038	Alnus incana (L.) Moench	5/30/15	Mendon
1039	Senecio	8/29/15	Sullivans
1040	Salix candida Flügge		"
1041	Hypericum ~~maculatum~~	8/	Woolstons
1042	Galium		Sullivans
1043	Pteridium		"
1044	Desmodium	9/5/15	Woolstons
1045	Dryopteris thelypteris	8/29/15	Sullivans
1046	Teucrium occidentale boreale (Bickn.) Fernald		
1047	Koellia incana (L.) Ktze.		
1048	" ~~flexuosa~~ virginiana (L.) MacM.		
1049	Gentiana andrewsii Griseb.		
1050	Cystopteris bulbifera		
1051a (1051)	Spiranthes gracilis	9/5/15	Bushnells Basin
1052	Anemone cylindrica	7/25/15	Woolstons
1053	Ranunculus abortivus	5/21/15	Sullivans
1054	Ribes floridum	7/25/15	Woolstons
1055	Euphorbia hirsuta	8/2/15	Sodus Point
1056	Ranunculus filiformis	"	Long Point, Sodus Bay
1057	Sicyos	8/22/15	Irondequoit Bay
1058	Potamogeton amplifolius Tuckerm.	8/2/15	Sodus Bay
1059	Stachys tenuifolia aspera (Mx.) Fernald	10/14/15	Palmers Glen
1060	" palustris L.	"	" "

No.	Name	1915	Locality	5	10	15
1061	Pilea pumila A. Gray	10/14	Palmers Glen			
1062	Lespedeza hirta	8/22	Irondequoit Bay			
1063	Elodea canadensis Mx.			.	1	
1064	Zannichellia					
1065	Najas flexilis					
1066	Cornus circinata					
1067	Dactylis glomerata	11/11	Pittsford			
1068	Galium erectum	6/7	Mt. Greylock, Mass.			
1069	Viola					
1070	Pyrola secunda					
1071	Trillium undulatum Willd.					
1072	Potamogeton epihydrus Raf.	Sept.	Oxtongue Lake, Ont., Can.			
1073	Cystopteris fragilis					
1074	Utricularia cornuta					
1075	Solidago canadensis					
1076	"					
1077	"					
1078	" juncea					
1079	" squarrosa					
1080	Utricularia purpurea					
1081	Dryopteris fragrans			1	1	1
1082	Polypodium vulgare L.					
1083	Dryopteris marginalis					
1084	Polypodium vulgare var.					
1085	Asplenium acrostichoides					1
1086	Woodsia ilvensis var.					
1087	" " (L.) R.Br.					
1088	Lycopodium clavatum L.					
1089	" obscurum L.					
1090	Salix humilis					
1090a	Cryptogramma stelleri					1

1091a	Salix		
1091	Salix petiolaris Sm.	Sept. 1915	Oxtongue Lake, Ontario
1092	Chenopodium botrys		
1093	Spiraea latifolia		
1094	Cornus		
1095	Euphorbia		
1096	Lycopodium complanatum flabelliforme Pursh	1/19/16	Alexandria, Va.
1097	Carex pennsylvanica	4/30/16	Jenkins woods, Pittsford
1098	Prunus virginiana	5/23	Ithaca, N.Y.
1099	Ribes floridum	5/11	Egypt, N.Y.
1100	" oxycanthoides	"	"
1101	Acer pennsylvanicum	5/25	Bergen
1102	" spicatum	"	"
1103	Rhamnus alnifolia	"	"
1104	Carya glabra	5/30	Mendon
1105	Rubus		
1106	Viola arvensis Murr.		
1107	Ribes floridum		
1108	Rhododendron canescens		
1109	Carex diandra		
1110	" riparia		
1111	Lycopodium lucidulum Mx.		
1112	Selaginella	6/4	East Rochester
1113	Pyrola elliptica Nutt.	7/4	Jenkins woods Pittsford
1114	Carex	6/4	Stop 10, East Rochester
1115	Ribes rotundifolium	"	"
1116	Bromus tectorum L.	"	"
1117	Frasera caroliniana		Corbetts Glen, Pittsford
1118	Habenaria dilatata	5/25	Bergen
1119	Dryopteris boottii	"	"
1120	Cardamine bulbosa	6/18	Golah

1121	Ranunculus delphinifolius		5/15/16	Golah	
1122	Trillium		"	"	
1123	Cypripedium candidum		6/15/16	Bergen	
1124	Carex molesta Mack. (Det. Hermann)		6/11	Wilmette, Ill.	C-1
1125	Vitis aestivalis				
1126	Potentilla canadensis				
1127	Lepidium				
1128	Salix ~~longifolia~~ interior Rowlee				
1129	Populus alba				
1130	Salix ~~rostrata~~ bebbiana				
1131	" ~~nigra~~ cordata				
1132	Carex ~~aquatilis~~. substricta (Kukenth.) Mack. + C. diandra Schrank			!! Hermann	
1133	Agropyron repens (L.) Beauv.				
1134	Elymus arenarius				
1135	Bromus tectorum L.				
1136	Hordeum jubatum				
1137	Ribes triste albinervium			Evanston, Ill.	C-2
1138	Arenaria lateriflora L.				
1139	Smilax hispida				
1140	Hypoxis hirsuta (L.) Coville				
1141	Bromus pratensis				
1142	Dactylis glomerata L.				
1143	Galium concinnum				
1144	" asprellum				
1145	Carex davisii Schw. & Torr.	β	6/15	Urbana, Ill.	C-3
1146	Geranium carolinianum	δ			C-4
1147	Cassia nictitans	δ			
1148	Potentilla	δ			
1149	Rubus	δ			
1150	Rosa	δ			
1138a	Rubus				
1146a	"				

1151	Oxybathus nyctaginiens (Mx.) Sweet		6/15/16	Urbana, Ill.	C-4	1
1152	Artemisia					
1153	Allium canadense					
1154	Stachys					
1155	"					
1156	~~Gratiola~~ Chaenorrhinum minus (L.) Pennell	J.W.P.				
1157	Erigeron philadelphicus					
1158	Rudbeckia hirta		6/13	U. of I. Campus, Champaign Ill.		
1159	Radicula sylvestris		"	"		
1160	Sanicula		6/16	Urbana, Ill.	C-5	
1161	Oxalis					
1162	Potentilla monspeliensis					
1163	Podanthus					
1164	Asarum canadense					
1165	Tradescantia reflexa	8	6/15	"		
1166	Scirpus		6/16			
1167	Festuca obtusa					
1168	Hystrix patula					
1169	Cystopteris fragilis					
1170	Hydrophyllum appendiculatum					
1171	" virginicum					
1172	Solanum nigrum L.					
1173	Collinsia					
1174	Veronica peregrina L. (Det. Pennell)					
1175	Galium concinnum T. & G.					
1176	Dryopteris goldieana		6/18	Castile, N.Y.		
1177	Scrophularia marilandica					
1178	Symphytum					
1179	Hieracium pratense					
1180	Rubus flavicomus Beadle					1

1181	Ribes	6/18/16	Castile, N.Y.	
1182	"			
1183	Rubus allegheniensis			1
1184	Viola			
1185	Betula alba papyrifera			
1186	" lutea			
1187	Utricularia americana			
1188	Viola incognita.	7/20	West Pond, near 4th Lake	
1189	Hypericum canadense	7/15	Mt. Pond, " "	
1190	Ilex verticillata	"		
1191	Rubus nigricans	7/12		
1192	Brachyelytrum erectum (Schreb.) Beauv.	7/18		1
1193	Danthonia spicata	"		
1194	Dryopteris intermedia (Muhl.) Gray		4th Lake	
1195	" "			
1196	" "			
1197	" "			
1198	" "			
1199	Kalmia angustifolia			
1200	Antennaria neodioica	7/15	Bald Mt	
1201	Microstylis unifolia	"	"	1
1202	Dicksonia punctilobula (Michx.) Gray	7/19	Black Bear Mt	
1203	Carex brunnescens gracilior			1
1204	Salix lucida			
1205	Potentilla tridentata Ait			
1206	Vaccinium canadense	7/15	Bald Mt.	
1207	" pennsylvanicum	"	Mt. Pond	
1208	" "	7/19	Black Bear Mt	
1209	" "	"	"	
1210	" " angustifolium	7/15	Bald Mt.	
1210a	Rubra	7/21	[illegible]	

No.	Species	Date	Locality	Tally
1211	Spergula arvensis	7/25/16	Stevens House, Lake Placid	
1212	Vaccinium atrococcum		Whiteface Mt.	
1213	Cornus canadensis			
1214	rust			
1215	Pyrus			
1216	Ribes prostratum			
1217	Betula			
1218	Alnus crispa			
1219	Carex brunnescens Poir.			
1220	Lycopodium annotinum L.			
1221	" selago			1
1222	Solidago cutleri			1
1223	Habenaria fimbriata	7/26	Wood farm, No. Elba, Ny	1 1
1224	Vaccinium atrococcum	7/27	Santanoni Mt.	
1225	" form. angustifolium		"	
1226	Picea semiprostrata Peck		"	
1227	Houstonia caerulea	7/26	Lake Henderson	
1228	Listera cordata (L.) R.Br.	7/30	Avalanche Lake	1 1
1229	Woodsia alpina R.Br.		"	1 ‡ 1
1230	Ribes lacustre		Opalescent trail	
1231	Carex oligosperma Mx.		Lake Tear	1
1232	" trisperma Dewey			1
1233	Vaccinium corymbosum			‡
1234	Salix uva-ursi Pursh		Mt. Marcy	1
1235	Abies			‡
1236	Prenanthes boottii			
1237	Vaccinium uliginosum		Santanoni	
1238	Habenaria bracteata		Johns Brook trail	1
1239	Cystopteris fragilis			
1240	Solidago			
1215a	Viola incognita		Whiteface	

No.	Name	Date	Locality	5		10		15
1241	Hypericum canadense	7/27/16	St. Huberts, Keene Valley					
1242	Mitella nuda	8/5	Mossy Cascade "				1	
1243	Lycopodium	8/1	" "					
1244	Betula	8/4	"Giant" trail "					
1245	"	"	"Gothics" "					
1246	Alnus	8/3	Mt. Colvin "					
1247	Lycopodium obscurum L.	8/6	Indian Head "					
1248	" annotinum		" " "					
1249	Dryopteris marginalis		"Giant" "					
1250	Cystopteris fragilis		" "					
1251			Beaver Meadow Falls "					
1252	Lycopodium annotinum pungens Desv.		"Giant"					
1253	Cryptogramma stelleri (Gmel.) Prantl		Rainbow Falls	1	1	1		
1255	Castanea	8/25	Palmers Glen, N.Y.					
1256	Trifolium incarnatum L.	6/25	Adams Basin					
1257	Vaccinium macrocarpon	9/10	Sullivan			1		
1258	Monarda didyma							
1259	"							
1260	Teucrium							
1254	Polystichum braunii (Spenner) Fée	8/6	Lower Ausable Lake		1		1	
1261	Viola Baxter House	9/10	Sullivan					
1262	Aster paniculatus							
1263	" undulatus							
1264	Viburnum dentatum	9/3	Jenkins woods, Pittsford					
1265	Ribes floridum	8/20	Sodus–Zurich road					
1266	Eragrostis hypnoides (Lam.) BSP	9/24	Lower Falls, Rochester			1		
1267	Leersia oryzoides		"					
1268	Eupatorium perfoliatum truncatum		"					1
1269	Bidens cernua L.	10/8	Irondequoit Bay					
1270	Utricularia americana		"					

				5	10	15
1271	Juglans regalis	10/8	Irondequoit Bay			
1272	Euphorbia glyptosperma	"	"			1
1273	Lycopodium	9/27	Barrett Farm, Pittsford			
1274	Bidens frondosa	10/2	Rochester			
1275	Salix bebbiana	8/6/15	Avalanche Lake			
1276	Desmodium rotundifolium	8/-/15	Mendon			
1277	Rhus glabra	7/-/15	Golah			
1278	Euphorbia	8/6/15	Chambord, Jct., Quebec			
1279	"	8/8/15	Quebec			
1280	Erythronium albidum	5/12/16	Golah			
1281	Spiraea tomentosa	6/24/16	Simpsons Woods, Rochester			
1282	Equisetum fluviatile	6/13/15	Egypt NY			
1283	Viola scabriuscula	5/14/15	Golah			
1284	Lathyrus maritimus	7/-/16	Pultneyville, Ny.			
1285	Triglochin	6/18/15	Bergen		1	
1286	Hypericum canadense	9/5/15	Sullivans			
1287	Juncus	5/29/16	Mendon			
1288	Triosteum perfoliatum	5/30/16	Powder Mills			1
1289	Potamogeton natans L.	9/23/15	Oxtongue Lake, Ont.			
1290	" compressus L.	7/5/14	Bradlocks Bay			
1291	" americanus C.&S.	7/26/14	Palmers Glen, Irondequoit Creek			
1292	" heterophyllus Schreb.	7/18/15	Mendon			
1293	" "	8/7/15	Metabatchouan Creek, Lake St. John			
1294	" richardsonii ~~inus~~ (Benn.) Rydb.	8/8/15	Lake St. John, Chambord Jct.			
1295	" ~~perfoliatus~~ Richardsonii	8/22/15	Irondequoit Bay			
1296	" pectinatus L.	"	"			
1297	" heterophyllus Schreb.	7/2/16	Mud Pond, Wayne Co.			
1298	" ~~compressus L~~ epihydrus Raf.	7/18/16	Agate Bay, 4th Lake			
1299	" heterophyllus Schreb.	8/7/15	Lake St. John			
1292a.	" angustifolius Bercht. & Presl.	7/18/15	Mendon			

1900	Dryopteris spinulosa	8/14/15	North Elba, N.y.	
1901	" cristata			
1902	Botrychium			
1903	Kneiffia pumila			
1904	Spiranthes romanzoffiana		Heart Lake	
1905	Gentiana linearis		North Elba	1 1
1906	Lobelia spicata			
1907	Empetrum nigrum	8/15	Mt. Marcy	
1908	Potentilla	"	Torreya Camp	
1909	Lycopodium selago	"	Mt. Marcy	
1910	Rhododendron lapponicum			
1911	Pyrola secunda			
1912	~~Solidago~~ Aster macrophylla Pursh			1 /
1913	Senecio robbinsii Oakes			
1914	Aster			
1915	Solidago			
1916	Rhinanthus oblongifolius Fernald			/
1917	Diapensia lapponica			/
1918	Polypodium vulgare L			
1919	Lycopodium			
1920	Alnus crispa			
1921	Phegopteris polypodioides	8/16	Avalanche Lake	
1922	Polypodium vulgare L.			
1923	Dicranum			
1924	Kalmia polifolia		Lake Tear	
1925	Betula glandulosa			
1926	Ambrosia		Lake Colden	
1927	Viola lanceolata	8/18	Mt. Pond	
1928	Hypericum virginicum			
1929	Oxalis acetosella			/
1930	Dalibarda repens			/

				5	10	15
1931	Rubus	Whiteface	7/25/16			
1932	" invisus	Bald Mt	7/15 "			
1933	"	Pulteneyville	7/6 "			
1934	Dentaria	Golah	5/12/17			
1935	Cardamine pratensis	Zurich	5/30/17		1	
1936	Habenaria lacera	"	7/2/16			
1937	Sisyrinchium	Swartz Camp	7/24/17			
1938	Veronica arvensis	L. Champlain	6/-/16			
1939	Symphytum officinale	Castile	6/18/16			
1940	Aster	Float Bridge	9/23/13			
1941	Solidago	Bald Mt.	8/10/14			
1942	" cutleri	Marcy	7/30/16			
1943	Antennaria neglecta	Mendon	6/1/17			
1944	Bidens frondosa	Roch.	10/12/16			
1945	Solidago macrophylla	Marcy	8/15/15			
1946	Vaccinium	Whiteface	7/25/16			
1947	Chamaedaphne calyculata	Sonyea	5/15/17			
1948	Habenaria dilatata	Marcy Br. Trail	8/-/15			
1949	" hookeri	Zurich	5/30/16			
1950	✓					
1951	✓					
1952	✓					
1953	Salix	Blossom Rd.	5/10/17			
1954	"	Round Pd.	7/3/17			
1955	" sericissima Fern.	Bergen	6/15/13			
1956	Juncus	L. St John	8/-/15			
1957	" pelocarpus	Upper Ausable	8/11/16			
1958	"	"	8/16/15			
1959	Ribes	Adams Basin	6/25/16			
1960	Solanum	Mud Pd. Zurich	7/2/16			
1961		Stop 10 RoC				
1962	Luzula parviflora	Tahawus	8/1/16			